Container Stacker Unpacking & Setup Instructions

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Revisions

Revision	Page No. (Contents)	Date
A	Original Release - ECO-1554	October 2004
B	Generic Version; Add rev history page, copyright page updated	January 2007

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Chapter 1
Container Stacker Installation Instructions

Installation Area

Refer to Appendix 1.

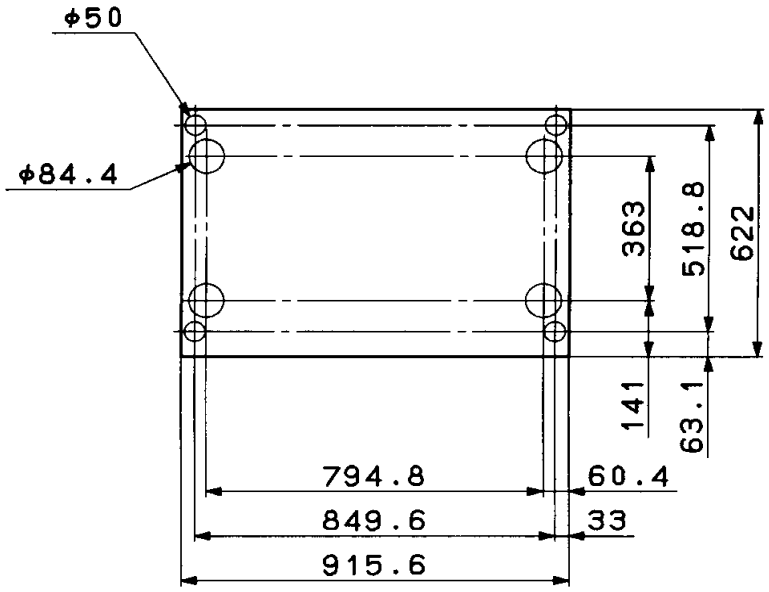
Environmental Conditions

The location where the Container Stacker is installed must meet the following environmental conditions:

ITEM	CONDITION
Temperature	10 to 32 °C
Humidity	20 to 80%RH (non-condensing)
Altitude	0 to 2,100 m

Location of Leveling Bolts and Casters

Install the leveling bolts and the casters to the Container Stackers 1 and 2 as follows.



Tools Required

The following tools are required:

TOOL	APPLICATION
Cutter	For unpacking
Phillips Screwdriver No. 2 shaft length: approx. 100 mm	For installing the Printer and Containter Stacker
Adjustable open end wrench (Span; 30mm)	For adjustment of leveling bolts
IC Gripper	For replacement of nv-RAM
Level	For installation of the Printer and Container Stacker

Important Safety Instructions

Observe the following safety instructions for safe unpacking and installation.

1. Keep the work area clean and free of loose parts.
2. Wear suitable clothing. Pay attention to ties, sleeves, and shirts so that they are not caught in the equipment.
3. Work in a stable position. Working in a strained position may cause injury.
4. If you must move the equipment, be sure the path is clear of obstacles and high voltage areas or wires.
5. Unplug the equipment before cleaning. Unplug the Printer from the outlet before cleaning the inside of the Printer and label the power cord plug to prevent other persons from plugging it in while you are cleaning.
6. Be sure to use the proper tools that are in good condition. Use of worn or improper tools can cause injury.

Unpacking of Container Stacker 1 or 2

CAUTION!

When using a crane or forklift, handle the equipment with care. Do not drop, bump or turn sideways.

Perform the unpacking procedure in a clean, dry location.

Do not place heavy objects (5 kg or more) on top of the equipment.

Keep the equipment balanced when lifting with a forklift. Use cushion materials to avoid damage.

Move the equipment at a speed of 300 mm/sec (1.08 km/h) or slower. Do not tilt the equipment more than 15°. Slope on the path can be no more than 15°.

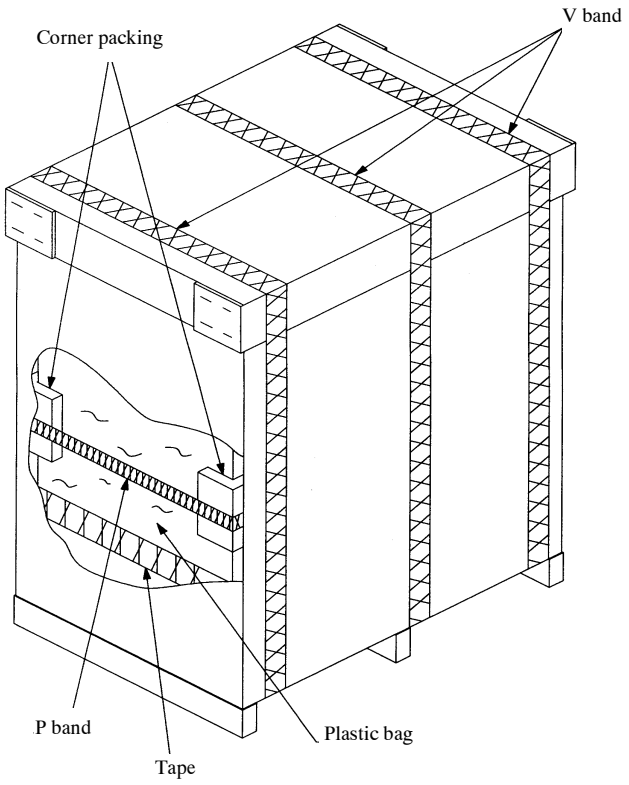
Do not allow condensation to form on the equipment.

Components in the Package

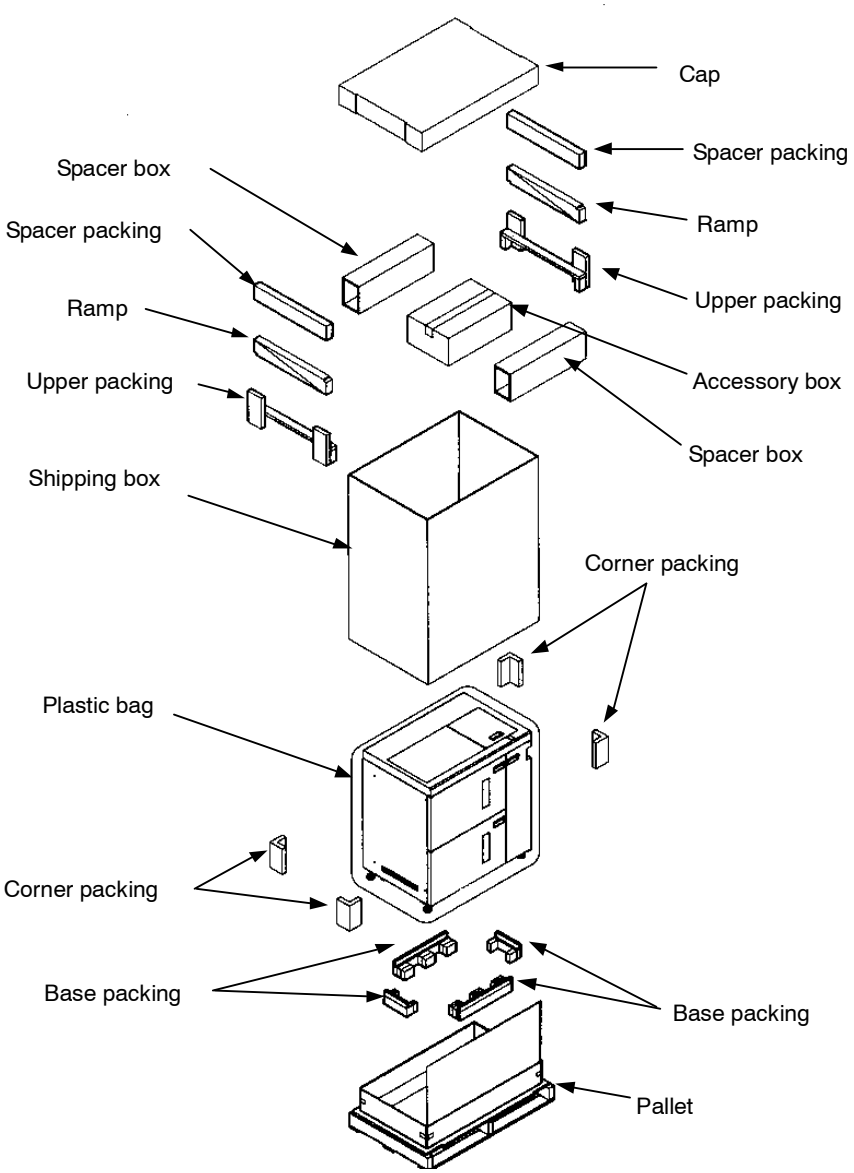
Component	Quantity
Container Stacker 1 or Container Stacker 2	1
Accessory box	1

Unpacking

1. Using a cutter, remove the V bandS from the shipping box and remove the cap.

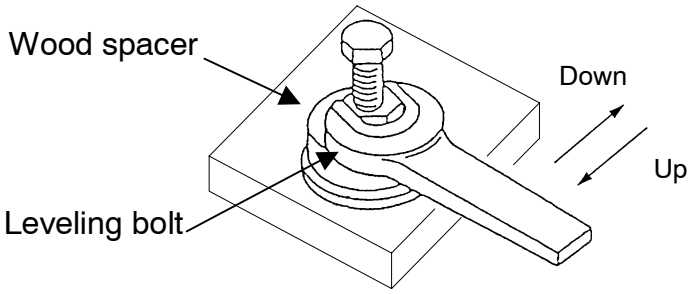


2. Remove the accessory box, spacer box, spacer packing, ramps and upper packing.
3. Remove the shipping box, band, and four corner pieces.
4. Peel off the adhesive tape and remove the plastic bag.
5. Cut the tape from the 4 corners of the base packing and push down the side of the pallet to become an incline board.



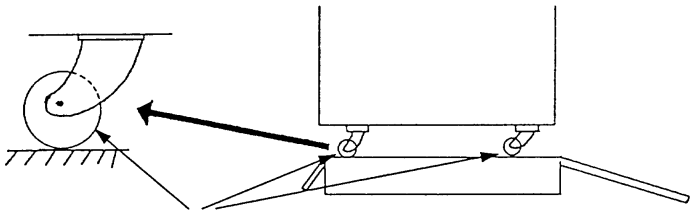
6. Romove the tape from the leveling bolts, take out the four wooden spacers from the accessory box, and place them at the bottom of the bolts (under the plastic bag).

7. Using an open-end wrench, raise the container stacker by rotating the leveling bolts.

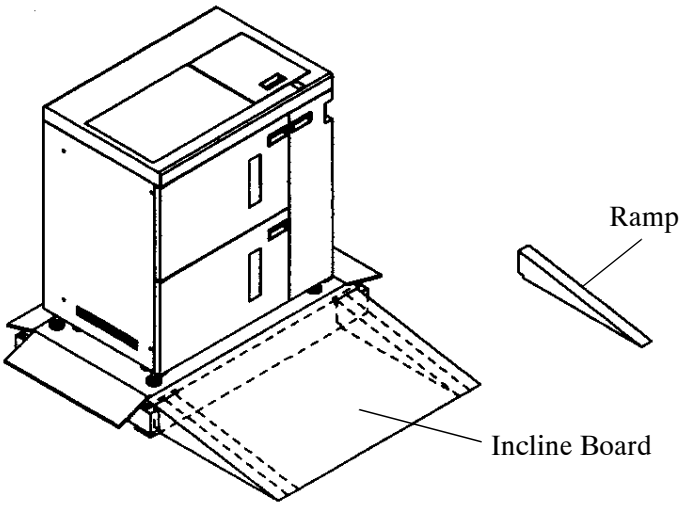


8. Remove the 4 pieces of base packing.

9. Turn all the casters in the same direction.



10. Install the ramps (two on each side) under the incline board.



11. Raise the leveling bolts and remove the wood spacers.

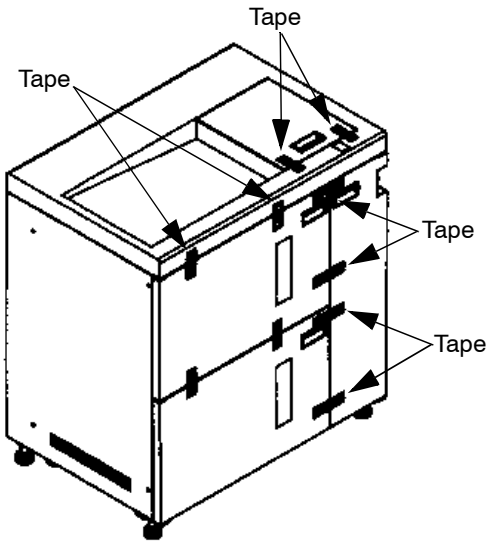
WARNING!

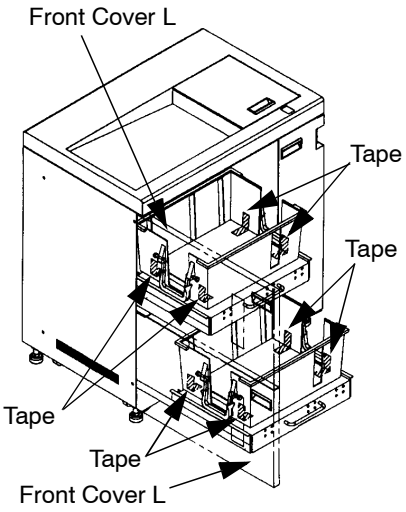
Do not attempt the following step without another person to help guide the stacker down the ramp.

12. Carefully slide the container stacker onto the floor.

Preparation for Installation of Container Stacker 1 or 2

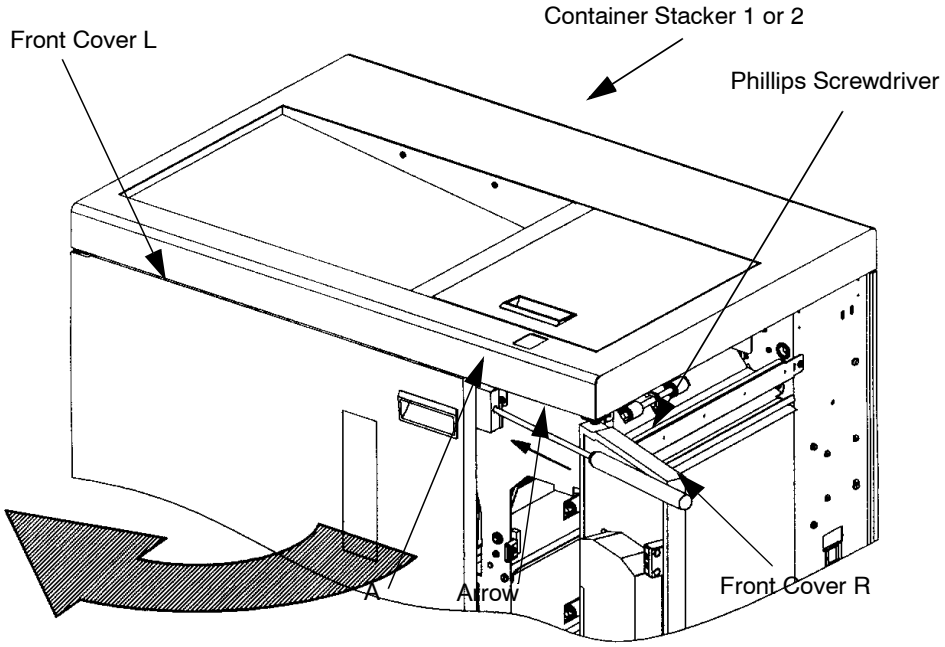
1. Peel off adhesive tape from the Container Stacker 1 or 2.
2. Open Front Cover L and peel off the adhesive tape



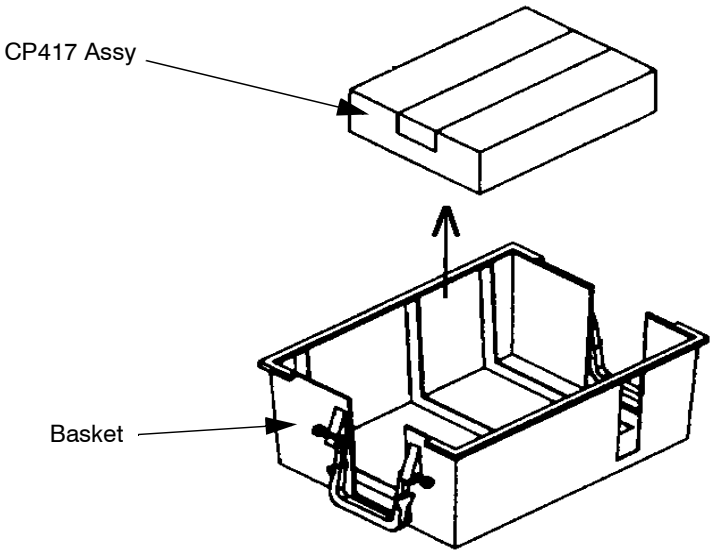


Opening procedure for Front Cover L

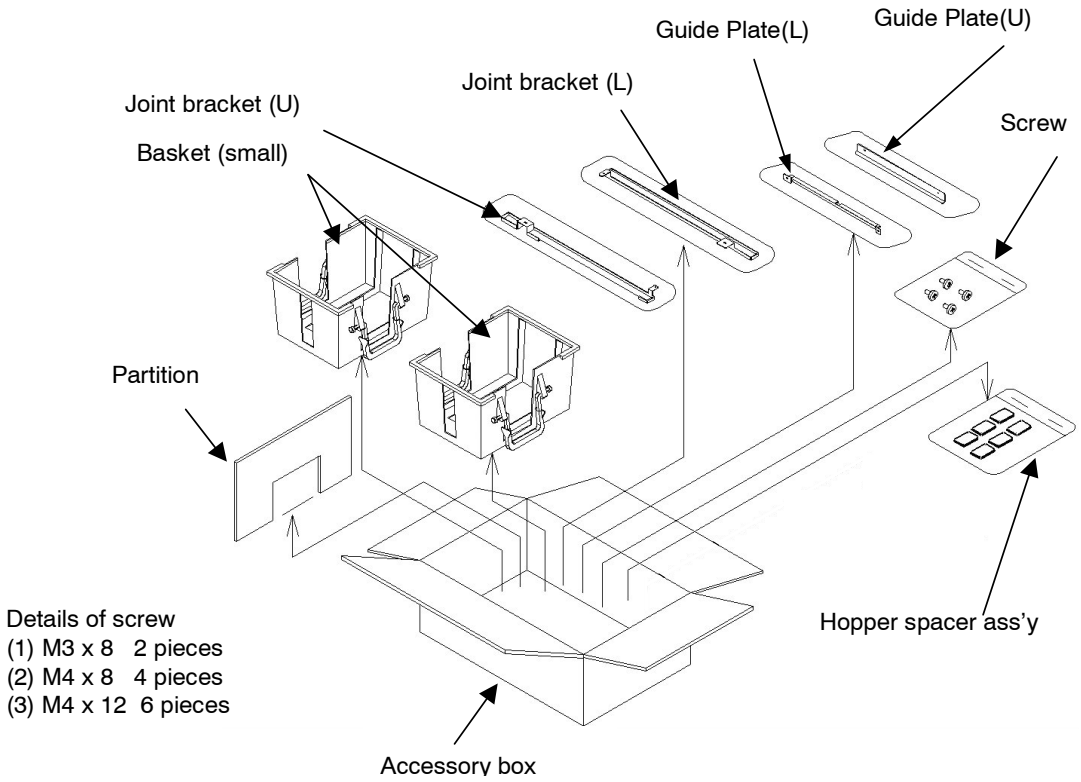
1. Open Front Cover R.
2. Using a Phillips screwdriver, push cover release A in the direction of the arrow and open Front Cover L.



3. Take the box containing the CP417 assembly out of the lower basket. | (70 ppm only)



4. Take the components out of the accessory box.



Installation Configuration

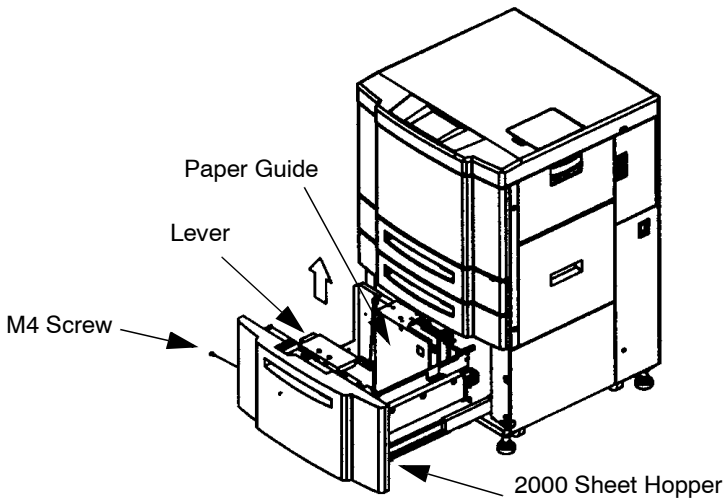
The table below shows the configuration of Printer and Post devices. Installation of each configuration should be done according to the reference page shown the in table below.

Configuration	Printer	Container Stacker 1	Container Stacker 2	Standard Finisher DDP70e	Standard Finisher DDP92/184	Reference Page
1	x	x				8
2	x	x	x			8, 16
3	x		x	x		8, 21
4	x		x		x	8, 24

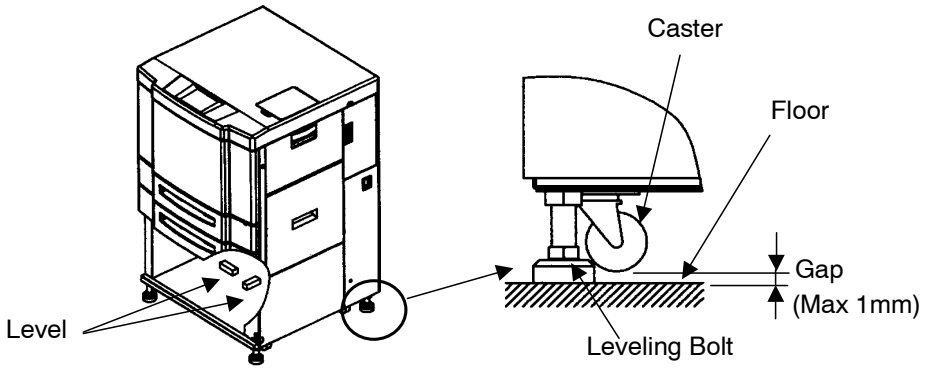
Prepare the Printer

70/92 ppm

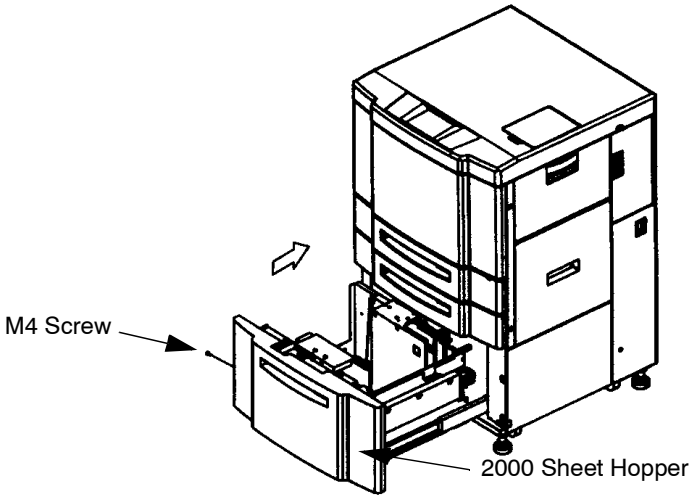
1. Remove the 2000 sheet hopper.



2. Turn the four leveling bolts until the casters do not touch the ground.
3. Place a level on the Printer frame and adjust the leveling bolts until horizontal level is achieved.

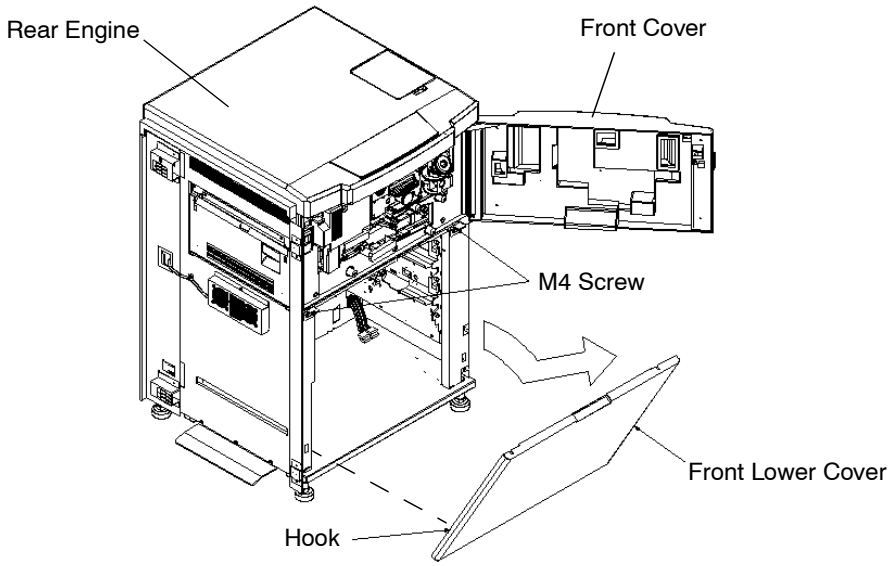


4. Reinstall the 2000 Sheet Hopper.

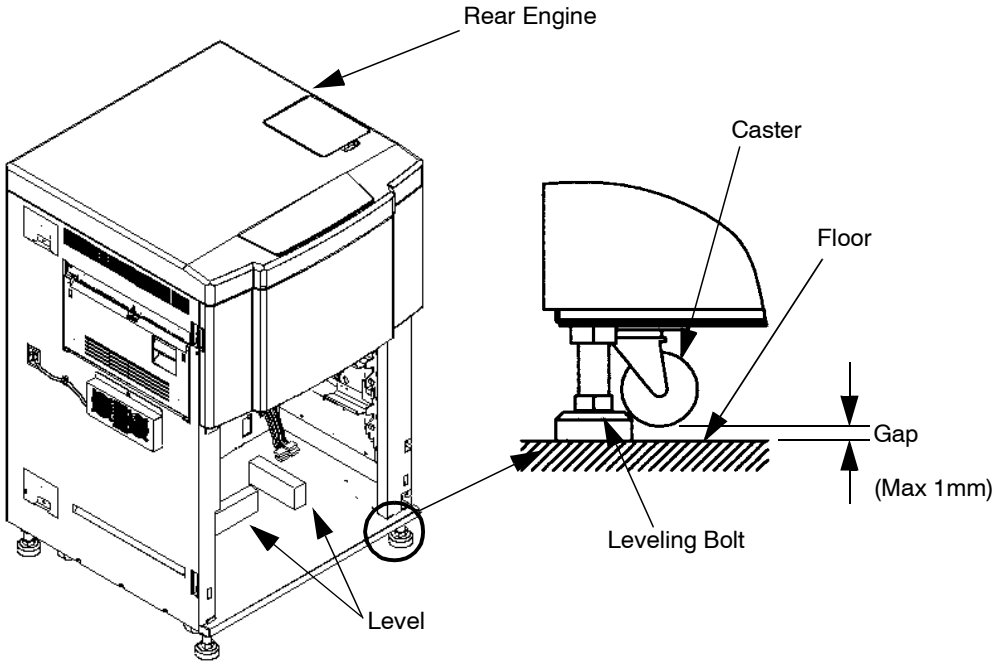


184 ppm

1. Open the Front Cover of the printer and loosen the two M4 screws. (184 ppm only)
2. Pull the upper part of the Front Lower Cover forward and unhook it by lifting and pulling forward.



3. Turn the four leveling bolts until the casters no longer touch the floor.
4. Using a Level, adust the horizontal level of the rear engine.



Install Container Stacker 1 or 2

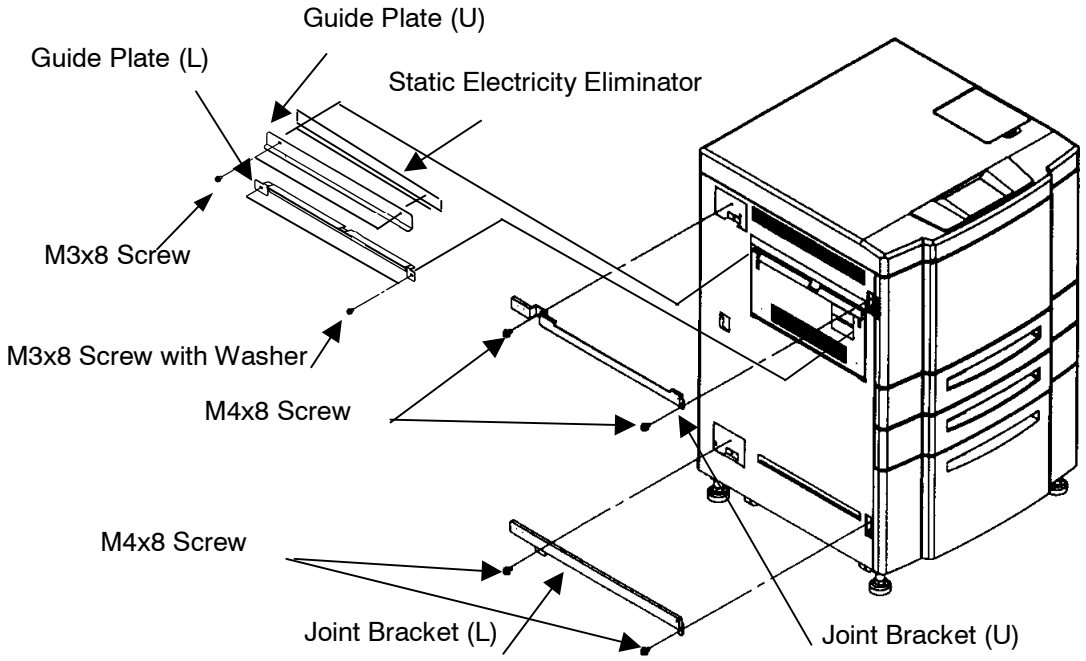
NOTE:
These installation instructions apply to the 70, 92 and 184 ppm printers.When installing a Container Stacker on a 184 ppm printer, the word printer always refers to the Rear Engine unless otherwise specified.

1. Remove the two M3x8 screws and Static Electricity eliminator from the Printer.
2. Install the Guide Plate (U) with the Static Electricity eliminator using the two M3x8 screws.(the front is lettered on the surface).

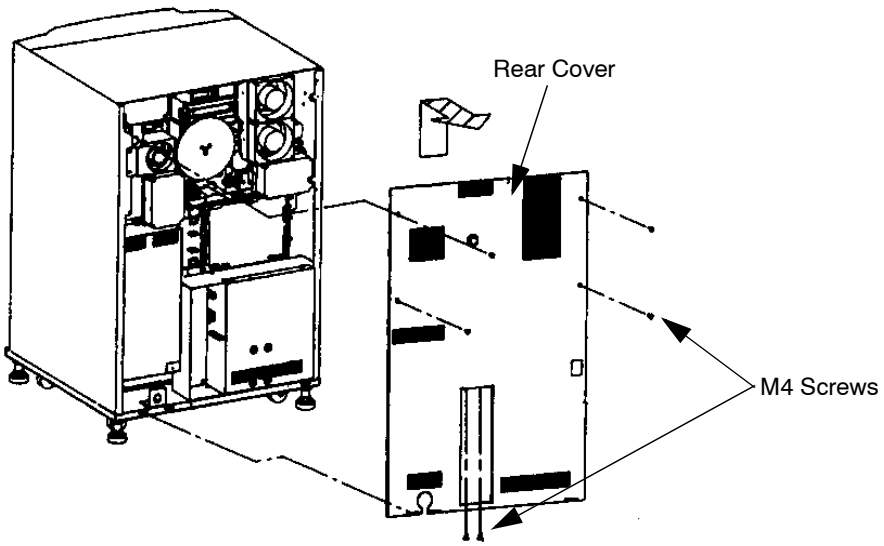
NOTE:
Take care that nothing interferes with the static eliminator.

3. Install the Guide Plate (L) using the two M3x8 screws with washers.
4. Install Joint Bracket (U) and Joint Bracket (L) using the two M4x8 screws.

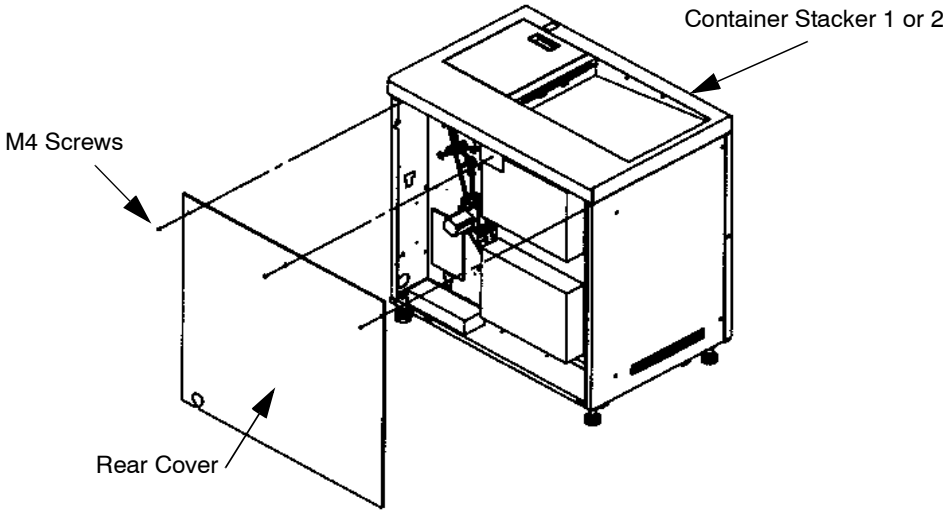
5. Install Joint Bracket (U) and Joint Bracket (L) using the two M4x8 screws.



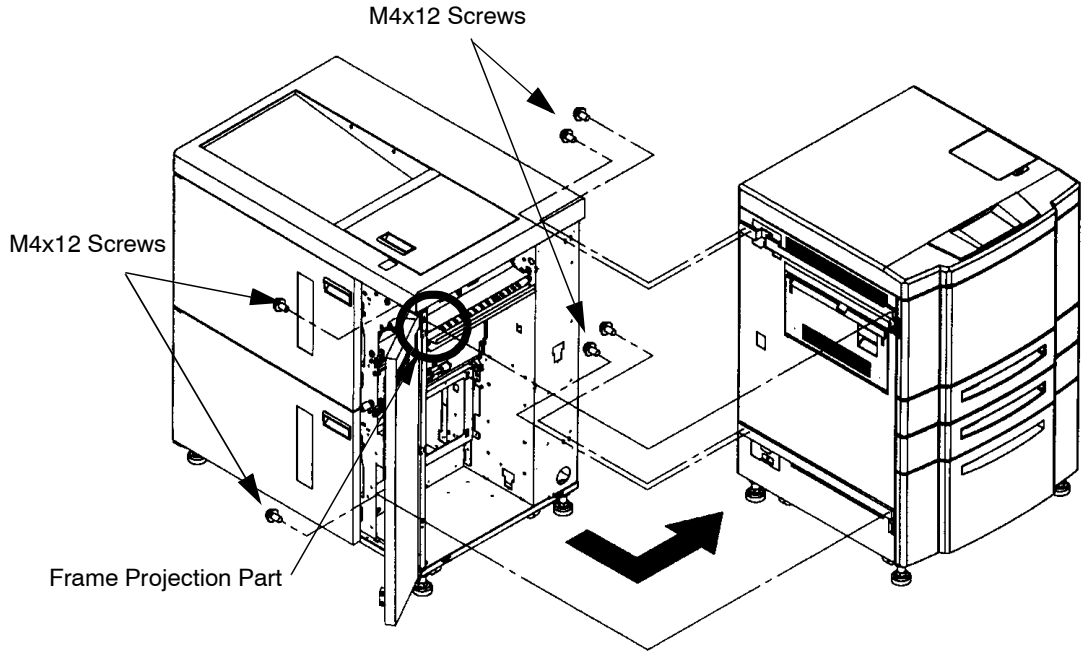
6. Remove the six M4 screws. Unhook the lower hook of the Rear Cover and remove the Rear Cover by lifting and pulling it forward.



7. Remove the six M4 Screws and the Rear Cover.



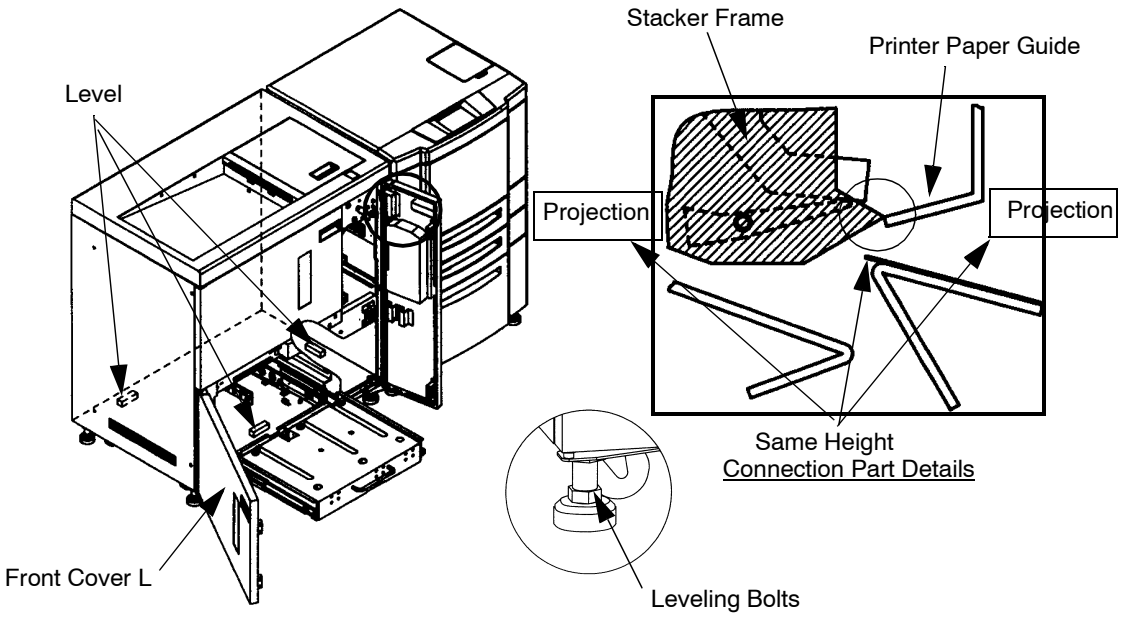
8. Attach Container Stacker 1 or 2 to the Printer and loosely install the screws.



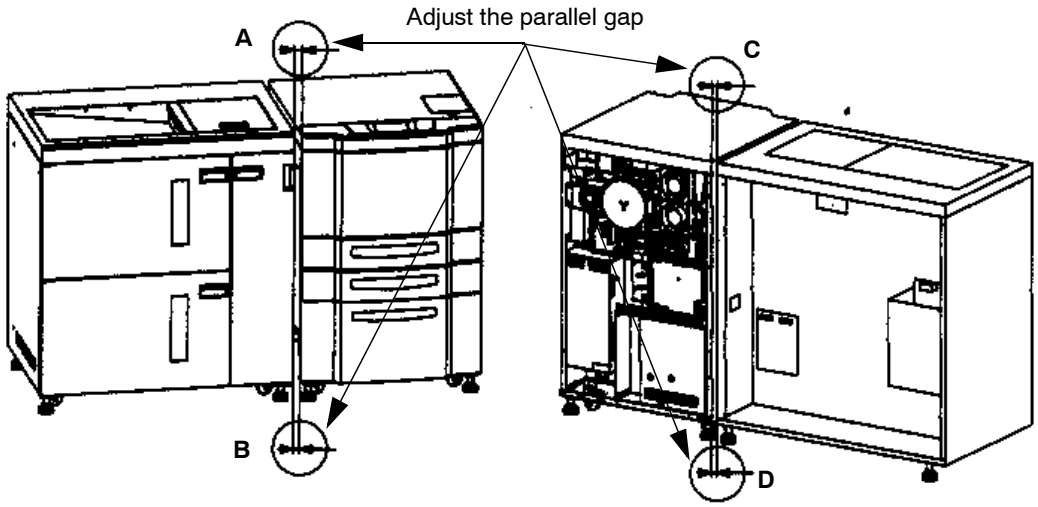
NOTE:

Refer to page 5 for instructions on opening Front Cover L.

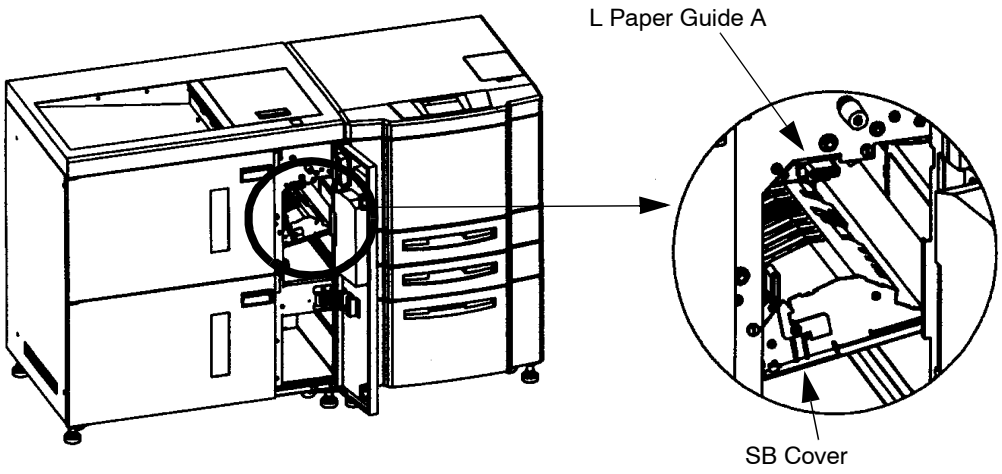
9. Close Front Cover R to allow you to see the gap between the Printer and Container Stacker. Using the leveling bolts, adjust the height of the Container Stacker until the Container Stacker frame projection is level with the Printer Paper Guide projection. Adjust the horizontal level of the Container Stacker by placing a level on the stacker frame in the three locations shown below. Tighten the screws completely.



10. Verify the gap at A, B, C, and D is nearly equal.



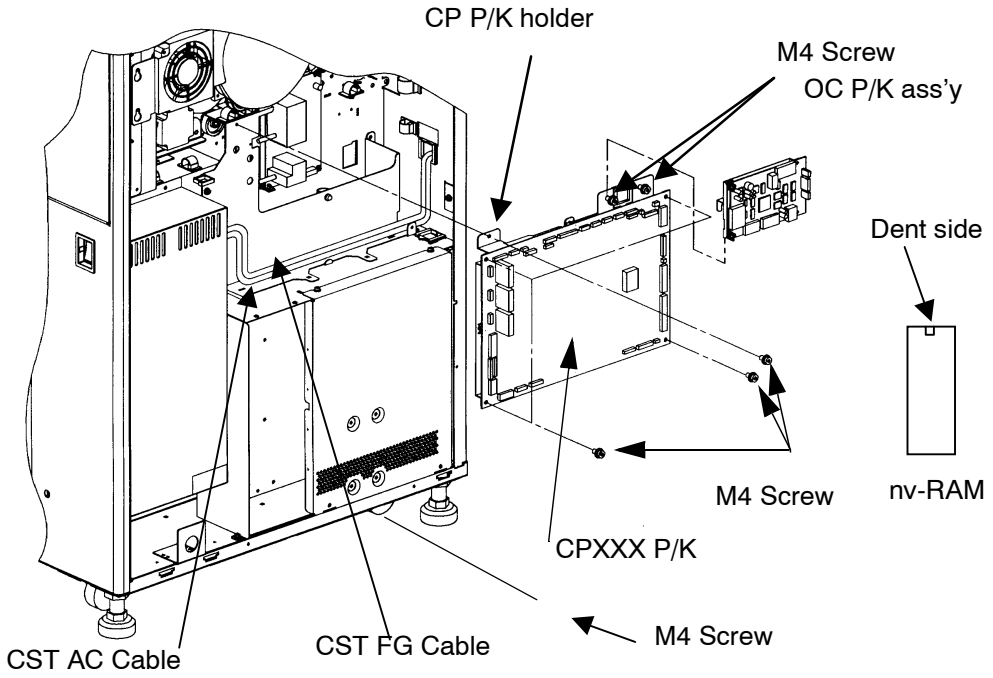
11. Open the L Paper Guide A of the Container Stacker and make sure that the SB Cover can be opened. If the cover cannot be opened, repeat steps 8 and 9 to readjust the Container Stacker.



12. Remove the OC P/K ass'y from the Printer. Remove the CP411 P/K and CP P/K holder (70 ppm only).

13. Remove the OC P/K ass'y and CP P/K holder from the Printer (92/184 ppm only).

14. Remove the nv-RAM from the CP411 P/K using an IC gripper. Install the removed nv-RAM into the CP417 P/K (70 ppm only)



15. Connect the CST AC cable coming from the Container Stacker to J236 on the power supply of the Printer (Connection 1 on the figure below). At this time, connect the CE AC cable that was disconnected from J236 to the connector of the CST AC cable (Connection 2 on the figure below).

16. Mount the CST FG cable coming from Container Stacker side on the Printer frame using an M4 screw (Connection 3 on the following illustration).

17. Install the CP417 P/K on the CP P/K holder, and then install it and the board in the Printer. (70 ppm only)

18. Install the CP P/K holder and OC P/K ass'y in the Printer (92/184 ppm only)

19. Connect the FNS IF cable of the 20 pin black connector coming from the Printer to the J680 connector of ST09X board in Container Stacker (Connection 4 on the figure below). Do not use the 4 pin white connector (Disconnection 2 on the following illustration).

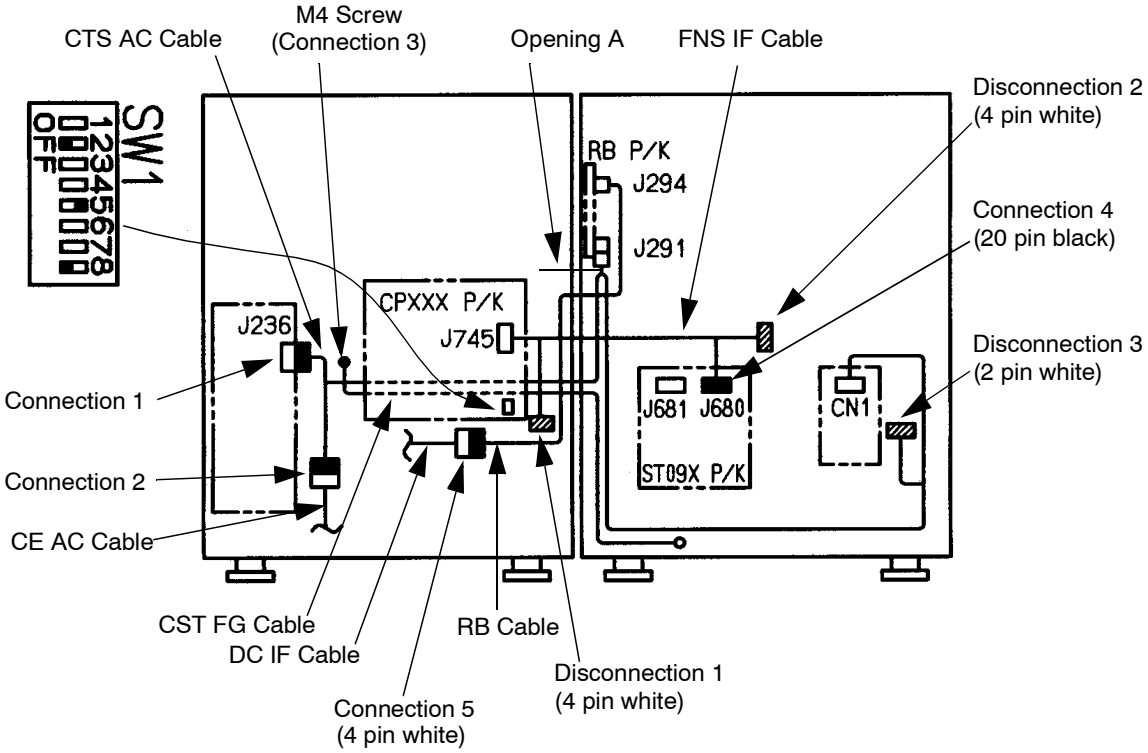
20. Disconnect the 4 pin white connector of the DC IF cable of the Printer from the FNS IF cable (Disconnection 1 on the figure below), then connect it to the RB cable of the 4 pin white connector coming from Container Stacker (Connection 5 on the following illustration) (70/92 ppm only).

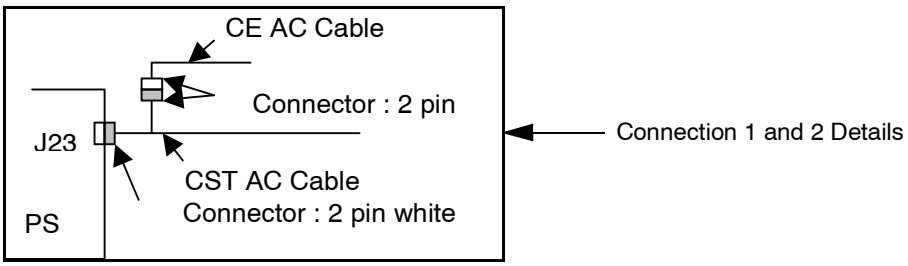
NOTE:

Put the cable through opening "A" of the Printer.
On SW1 mounted on the CPXXX P/K, set switch No. 5 to ON and set switch No. 2 and No. 8 to OFF. (Front Engine of 184 ppm printer)

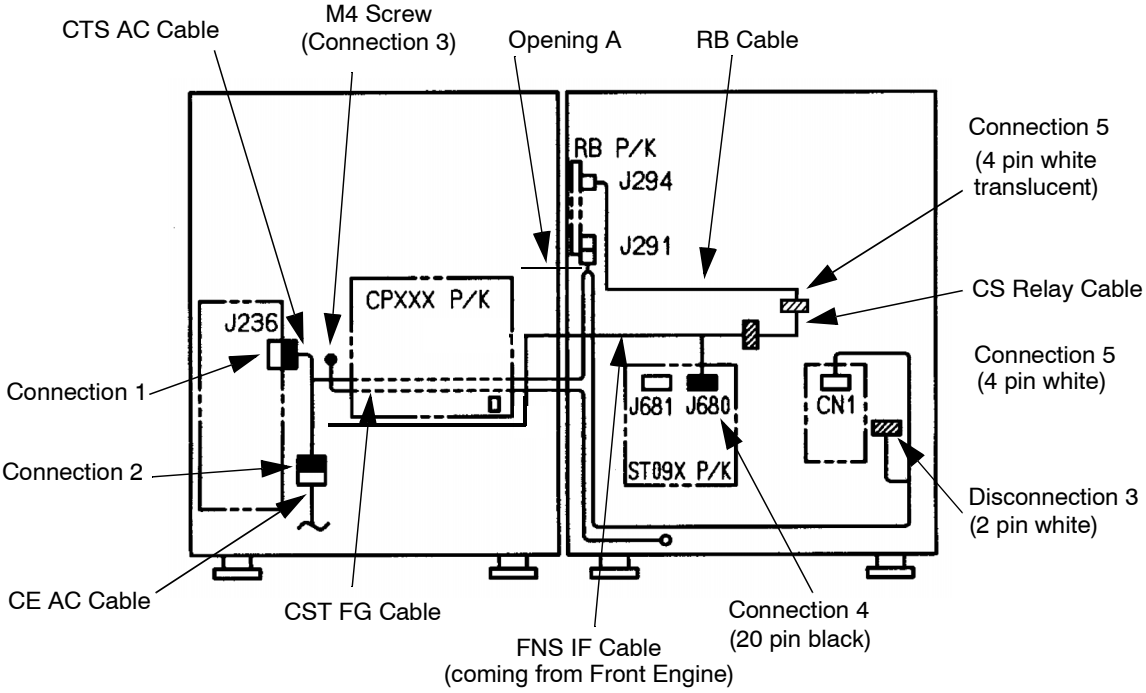
21. Connect the CS relay cable of accessory box of the printer to the 4 pin white connector of the FNS IF cable and the RB cable of the 4 pin white translucent connector of the Container Stacker (Connection 5 on the following illustration.) (184ppm only)

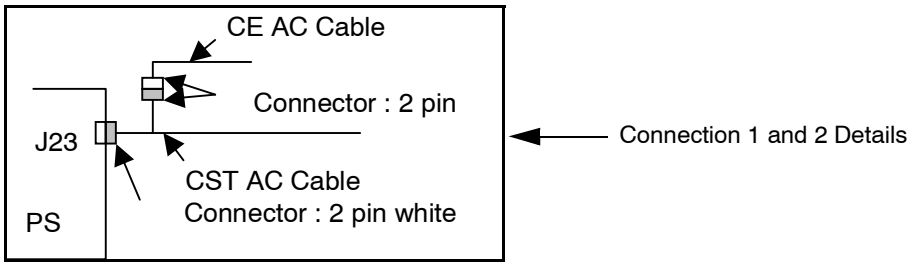
70/92 ppm



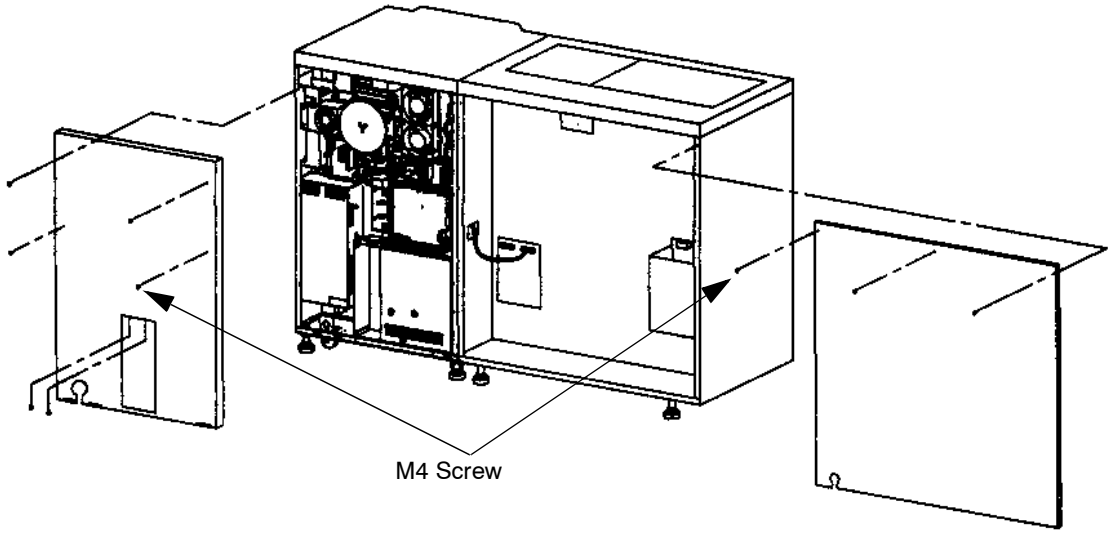


184 ppm


CTS AC Cable
M4 Screw
(Connection 3)
Opening A
RB Cable
RB P/K
J294
J291
Connection 5
(4 pin white
translucent)
CS Relay Cable
CPXXX P/K
J236
Connection 5
(4 pin white)
Connection 1
J681
J680
CN1
Connection 2
ST09X P/K
Disconnection 3
(2 pin white)
CE AC Cable
CST FG Cable
FNS IF Cable
(coming from Front Engine)
Connection 4
(20 pin black)


CE AC Cable
Connector : 2 pin
J23
CST AC Cable
Connector : 2 pin white
PS
Connection 1 and 2 Details

22. Install the Rear Cover of the Printer and the Rear Cover of the Container Stacker.

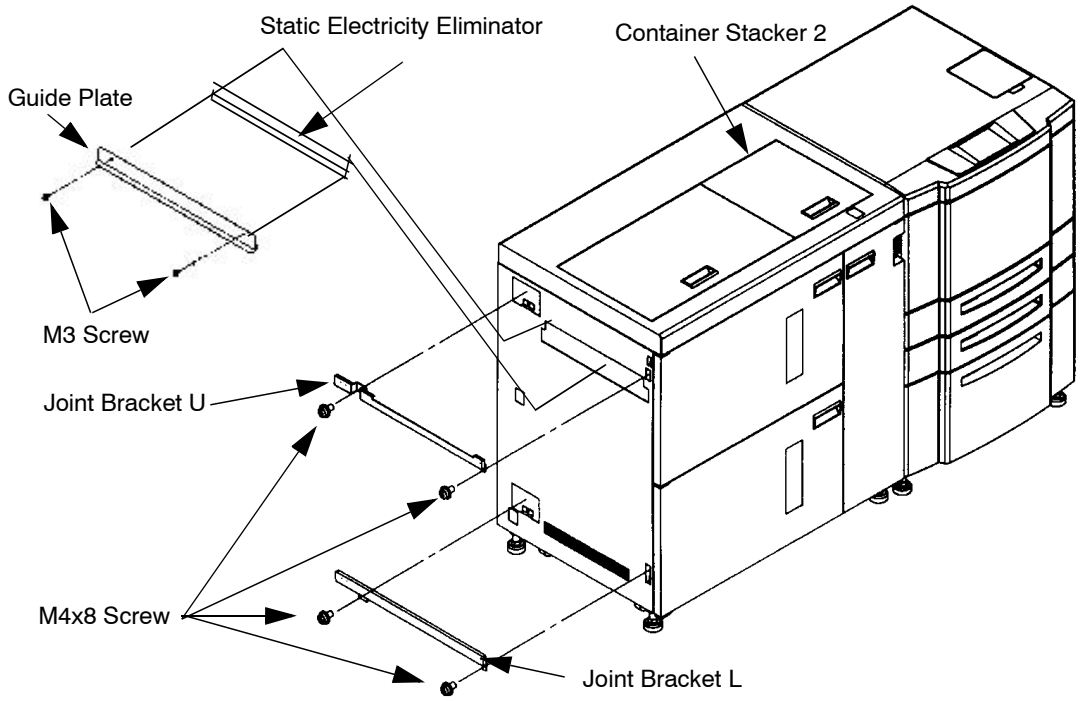


Installation of Container Stacker 2 and Container Stacker 1

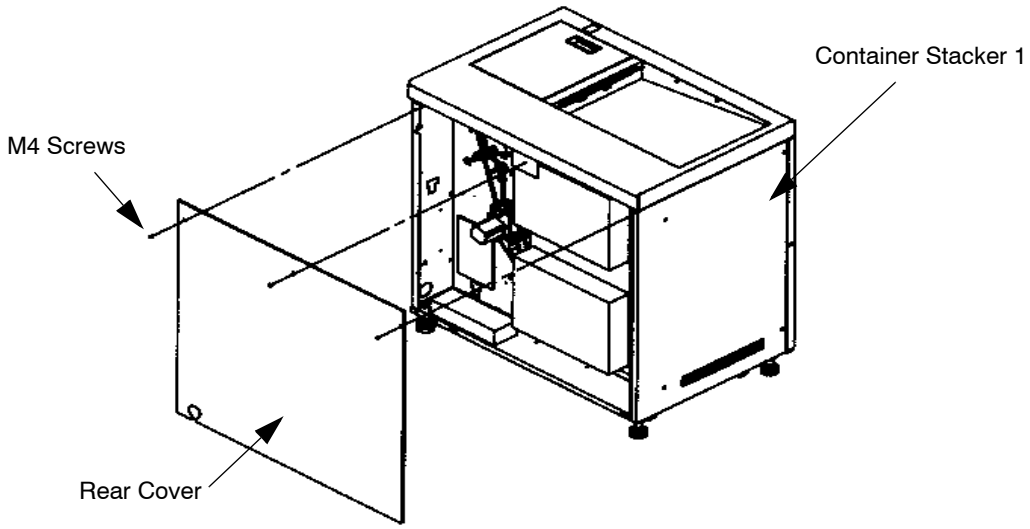
1. Remove the two M3x8 Screws and Static Electricity eliminator from the Printer.

NOTE:
Refer to page 9 for installation of the Printer and the Container Stacker 2.

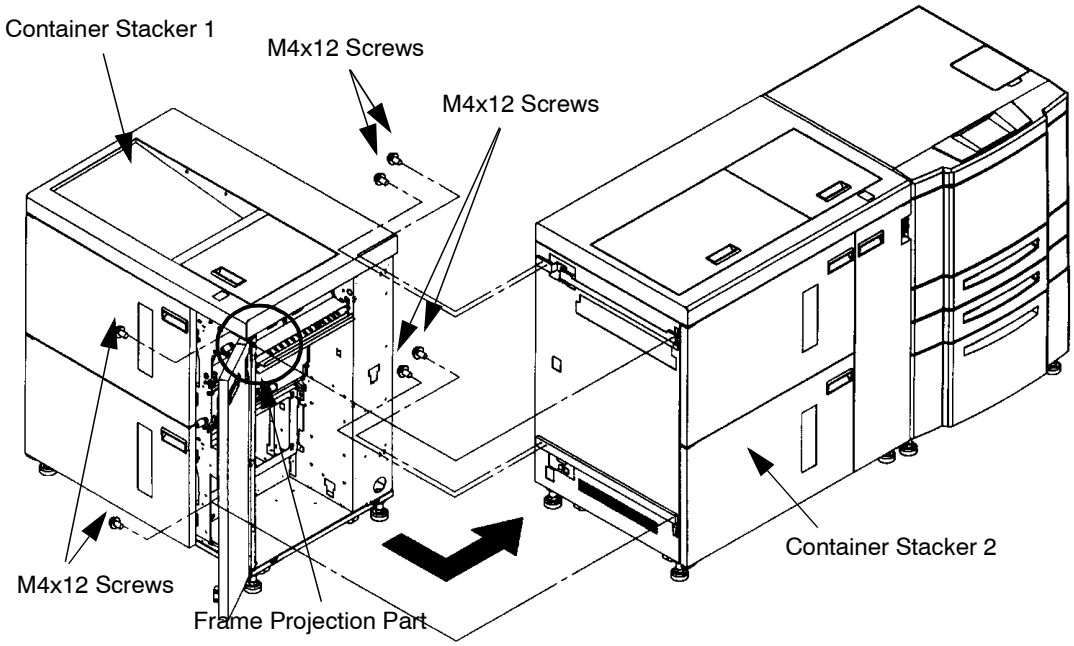
2. Attach the Guide Plate (U) with the Static Electricity eliminator using the two M3x8 Screws.
3. Install Joint Bracket (U) and Joint Bracket (L) using the two M4x8 Screws.



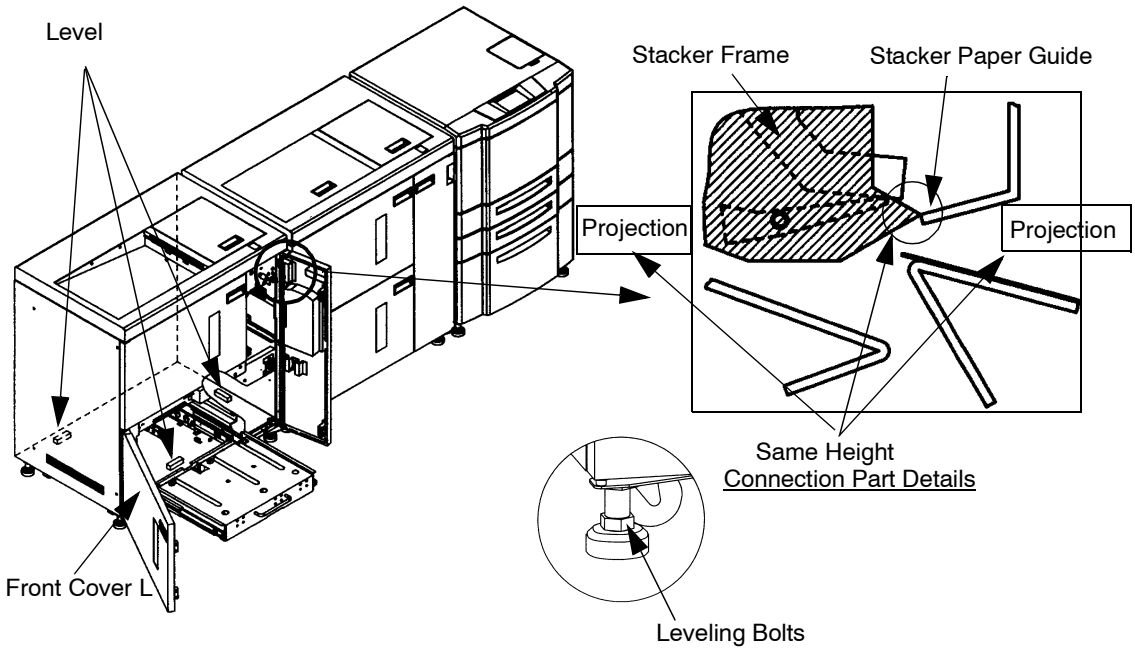
4. Remove the six M4 Screws and remove the Rear Cover from Container Stacker 1.



5. Attach Container Stacker 1 to Container Stacker 2 and loosely install the screws



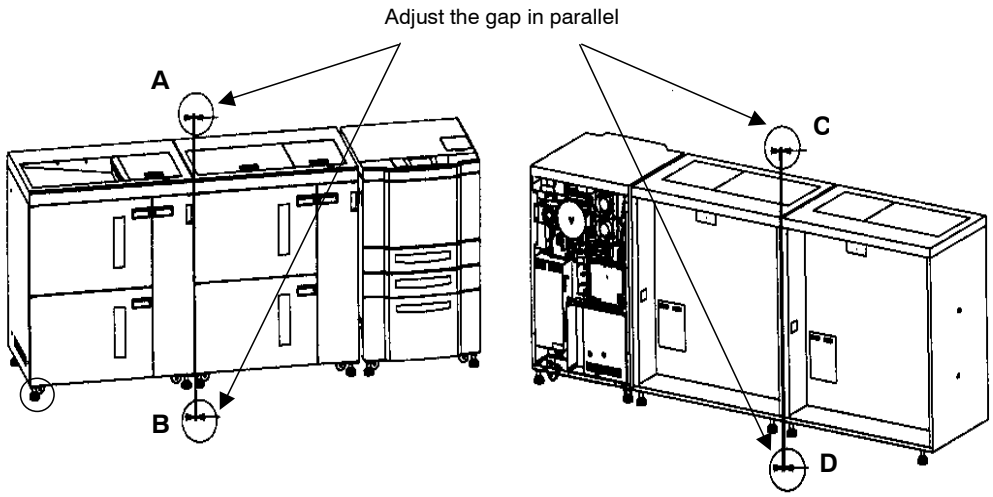
6. Close Front Cover R to allow you to see the gap between the Printer and Container Stacker. Using the leveling bolts, adjust the height of the Container Stacker until the Container Stacker frame projection is level with the Paper Guide projection. Adjust the horizontal level of the Container Stacker by placing a level on the stacker frame in the three locations shown. Tighten the screws completely.



NOTE:

Refer to page 5 for instructions on opening Front Cover L.

7. Verify the gap at A, B, C, and D are nearly equal.



8. Connect the AF cable of 4 pin white connector coming from the Container Stacker 2 to the J680 on the ST09X P/K of the Container Stacker 1. (Connection 1 on the following illustration)

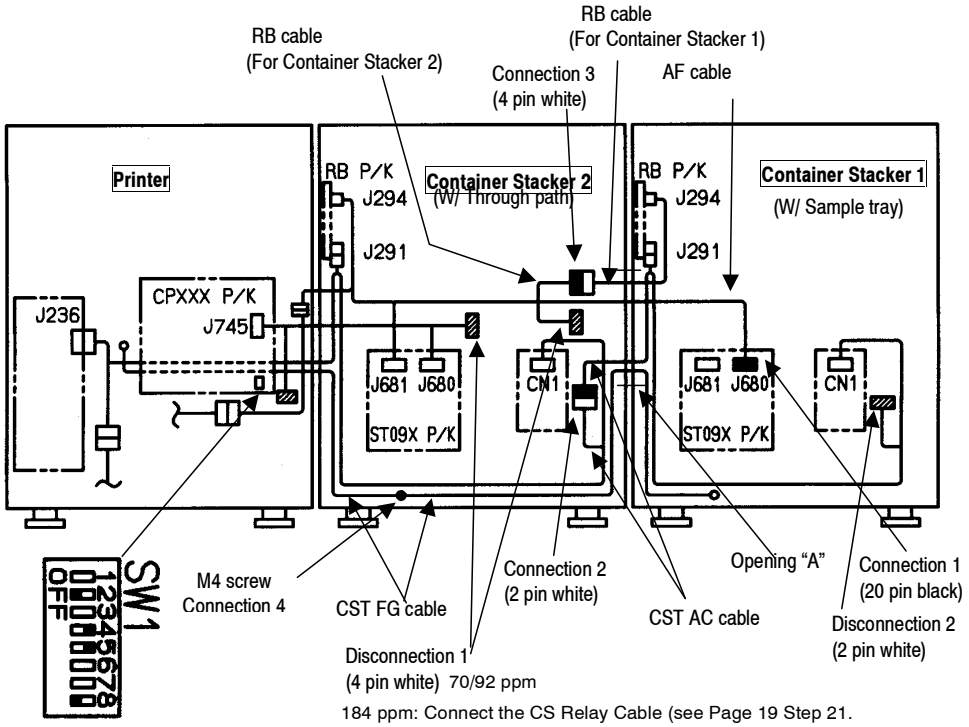
9. Take out the CST AC cable of 2 pin white connector from the Container Stacker 1 and connect it to the CST AC cable of 2 pin white connector of the Container Stacker 2. (Connection 2 on the following illustration)

10. Take out the RB cable from the Container Stacker 1 and connect it to the RB cable of Container Stacker 2. (Connection 3 on the following illustration)

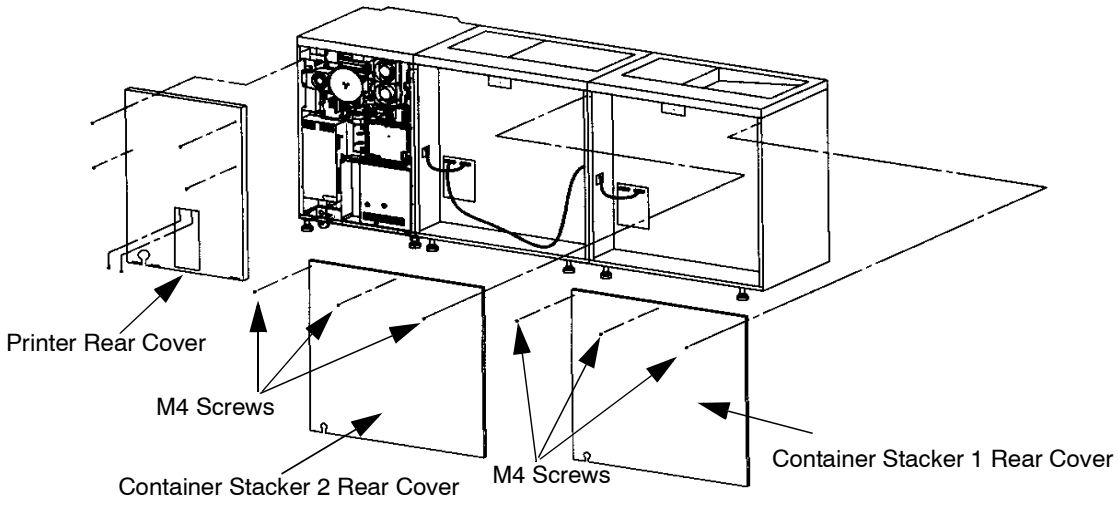
11. Mount the CST FG cable coming from Container Stacker 1 on the frame of Container Stacker 2 using M4 Screw (Connection 4 on the following illustration).

NOTE:

Put the cable through opening "A" of the Printer.
On SW1 mounted on the CPXXX P/K, set switch No. 4 and No. 5 to ON and set No. 2 and No. 8 to OFF. (Front Engine of 184 ppm)



12. Install the Rear Covers of the Printer, Container Stacker 1 and Container Stacker 2.

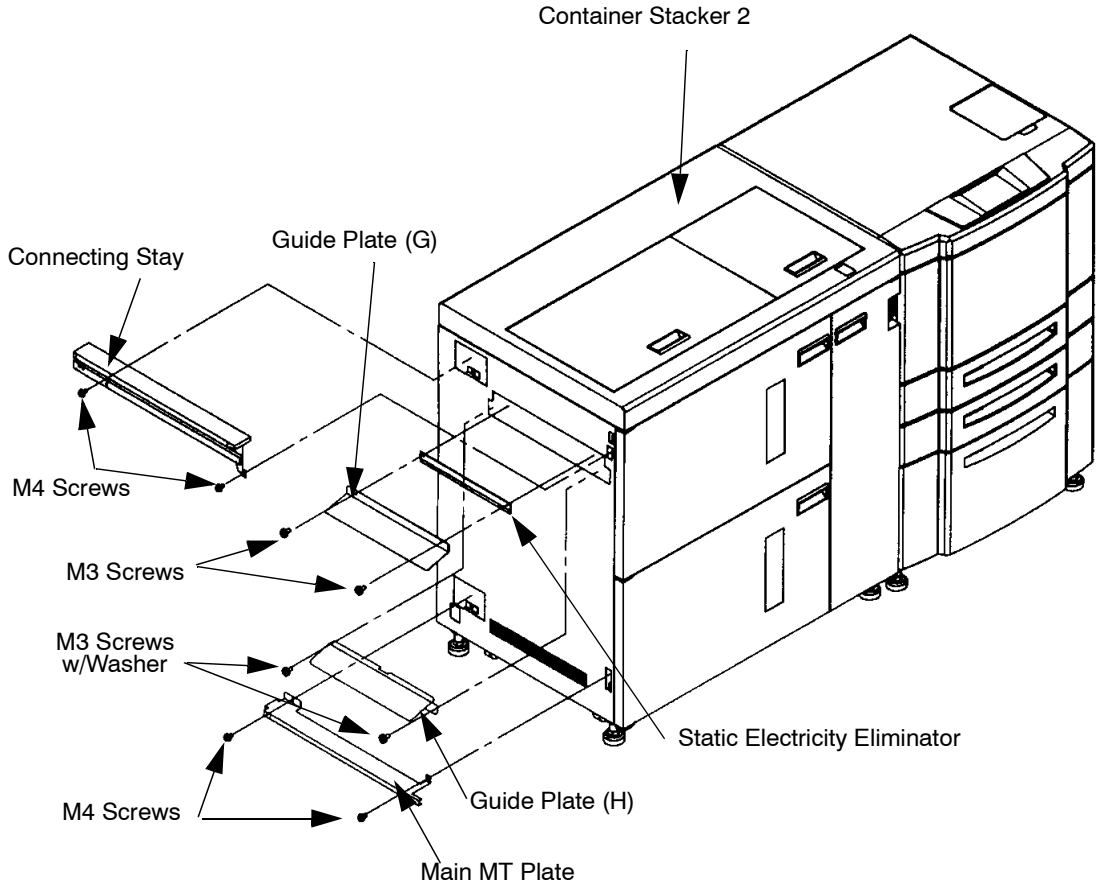


Installation of Container Stacker 2 and Standard Finisher

Refer to "Standard Finisher Installation Instruction" for unpacking and preparation for installation of the Standard Finisher.

Standard Finisher (70 ppm)

1. Remove the two M3 Screws and the Discharging Brush from Container Stacker 2.
2. Install the Guide Plate (G) together with the Discharging Brush and secure them with two M3 Screws.
3. Install the Guide Plate (H), Connecting Stay and Main MT Plate.

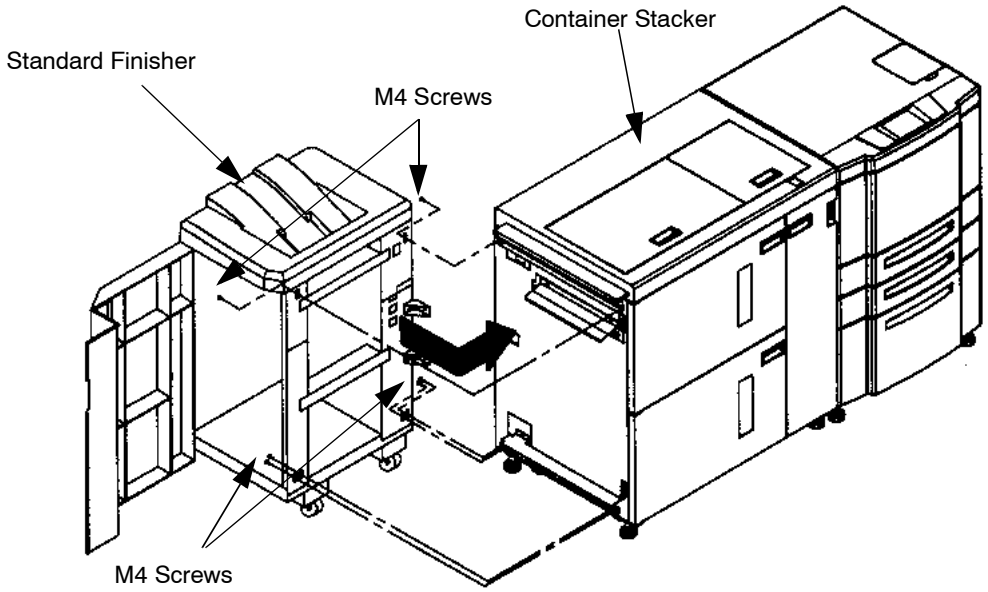


4. Remove the Rear Covers from the Printer, Container Stacker 2 and standard Finisher.

NOTE:

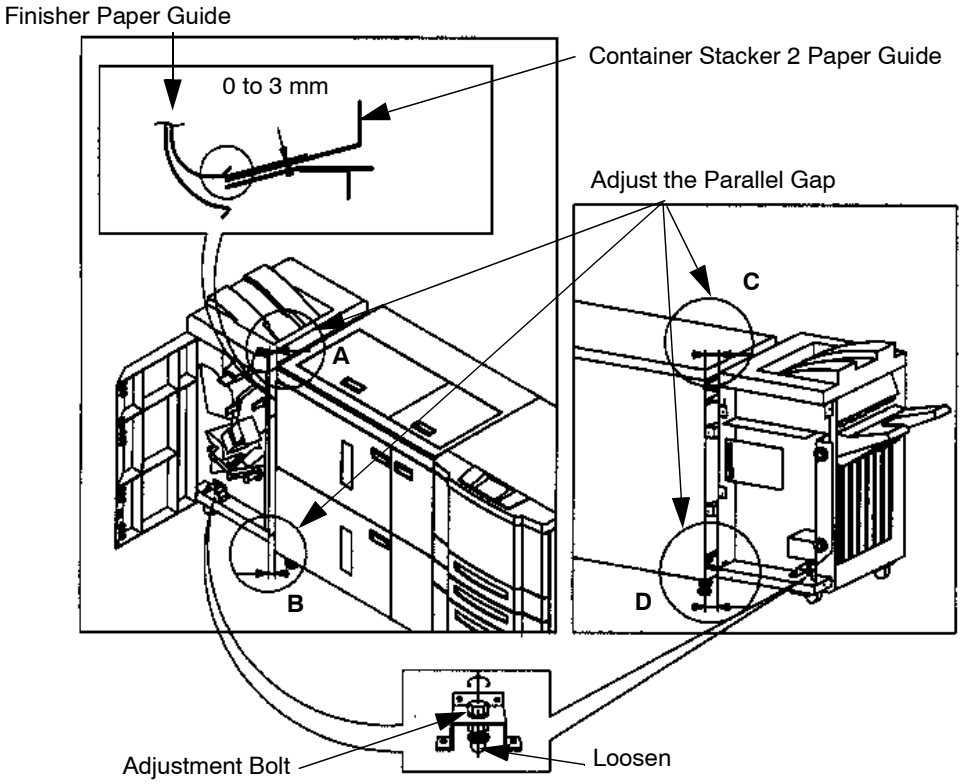
Refer to the "Standard Finisher Installation Instruction" regarding unpacking and installation of the Finisher.

5. Attach the Standard Finisher to the Container Stacker 2.



6. Adjust the difference between the Stacker Paper Guide and the Printer Paper Guide to 0 - 3 mm.

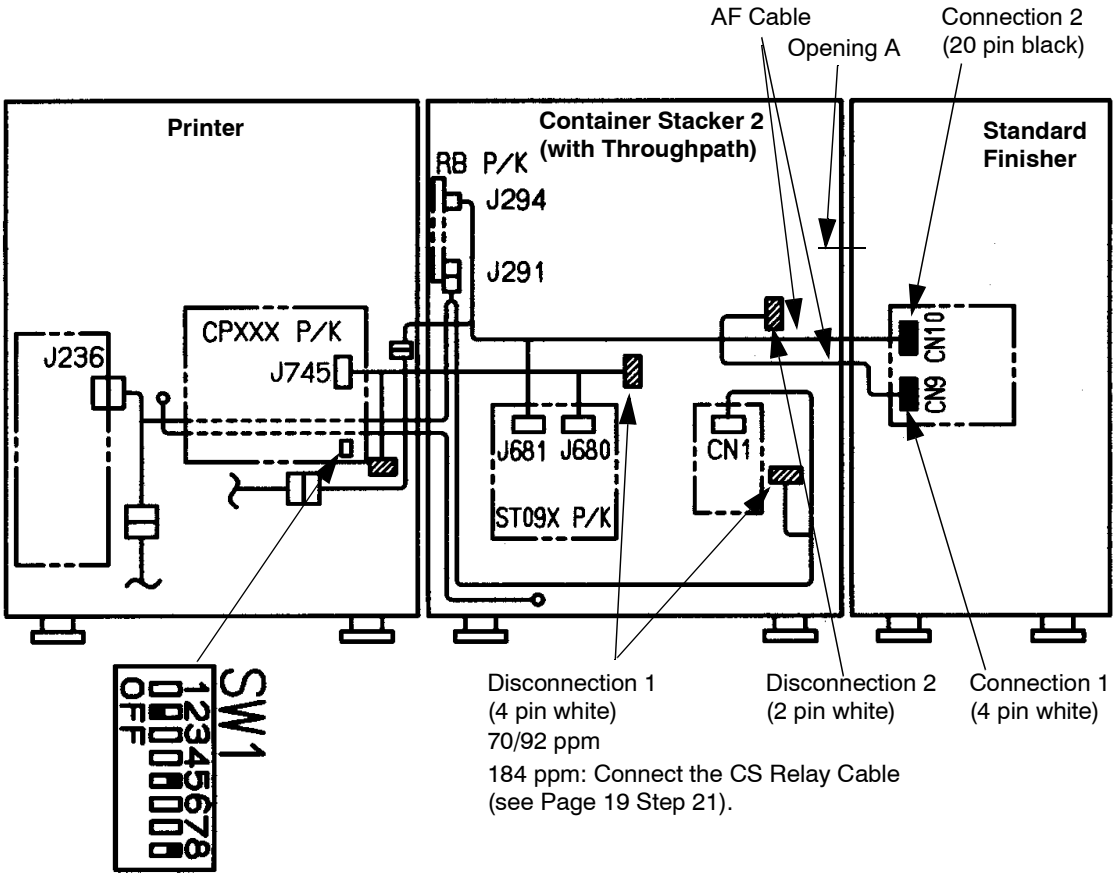
7. Verify the gap of A, B, C, and D are nearly equal. If not, adjust the leveling bolts.



8. Connect the AF cable of 4 pin white and 20 pin black connectors and coming from the Container Stacker 2 to the connectors CN9 and CN10 of the Finisher. (Connection 1 and 2 on the illustration below)

NOTE:

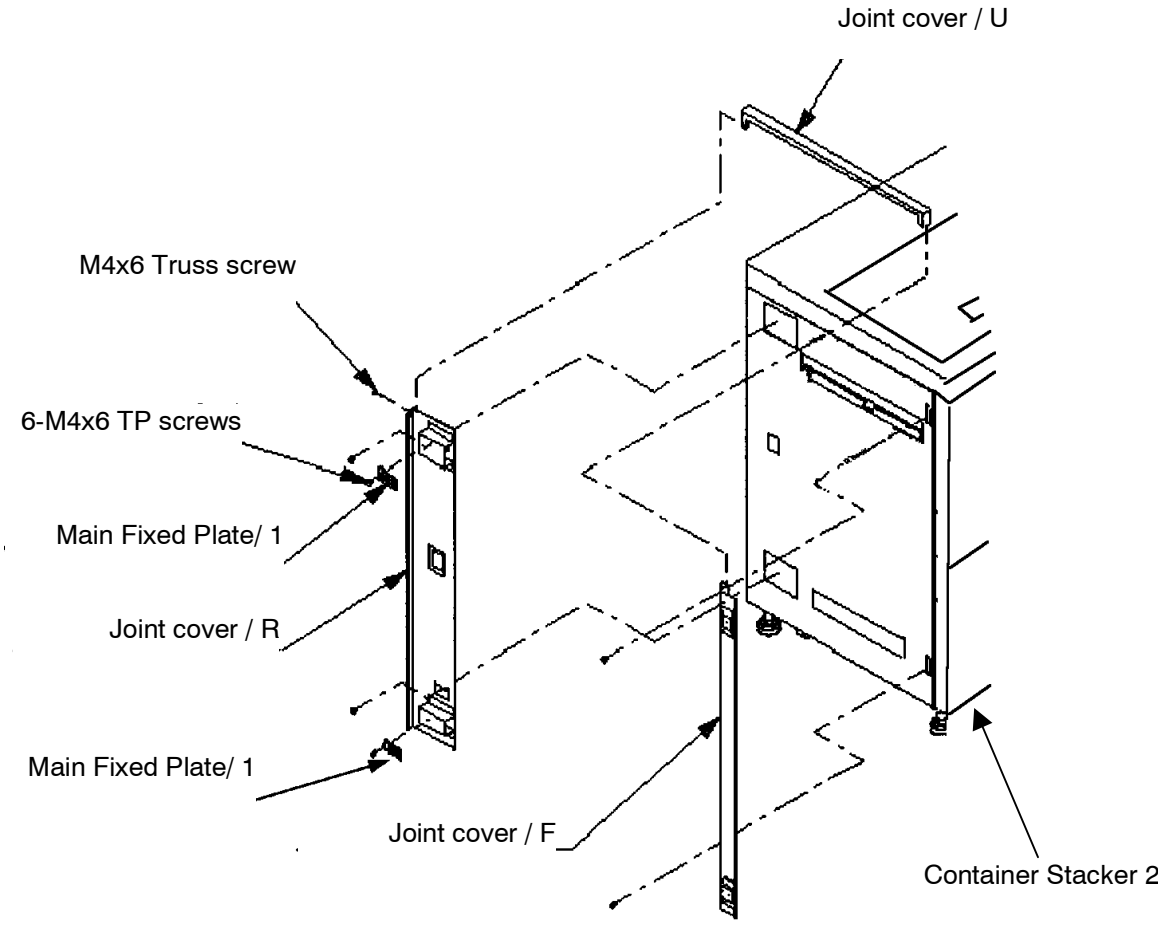
Put the cable through opening "A" of Container Stacker 2.
On SW1 mounted on the CPXXX P/K of the Printer, set switch No. 5 and No. 8 to ON and set switch No. 2 to OFF.



9. Install the Rear Covers of the Printer, Container Stacker 2 and Standard Finisher. Install the connecting cover between the Container Stacker and the Standard Finisher.

Standard Finisher (92/184 ppm)

1. Install the Joint Cover/U, Joint Cover/F, the Joint Cover/R, and the Main Fixed Plate/1.



2. Remove the Rear Covers from Printer, Container Stacker 2 and Finisher

NOTE:

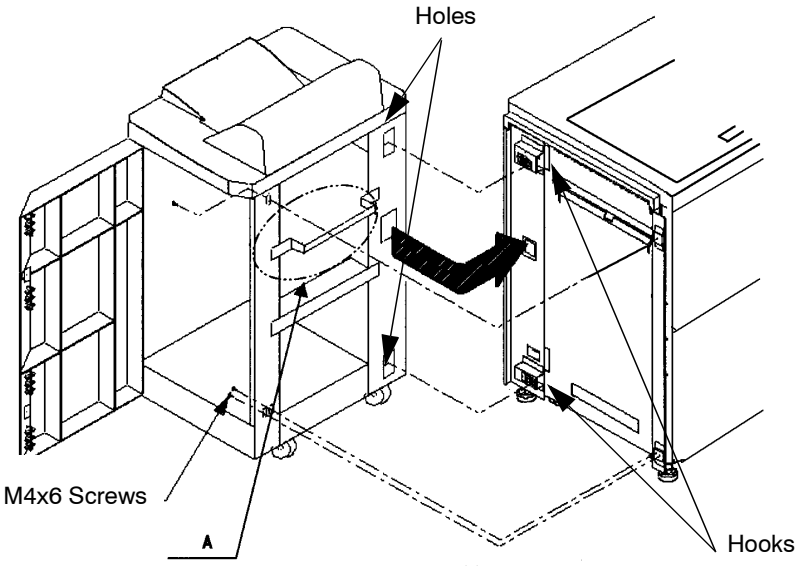
Refer to the "Standard Finisher Installation Instruction regarding unpacking and installation of the Finisher.

Attach the Finisher to the Container Stacker

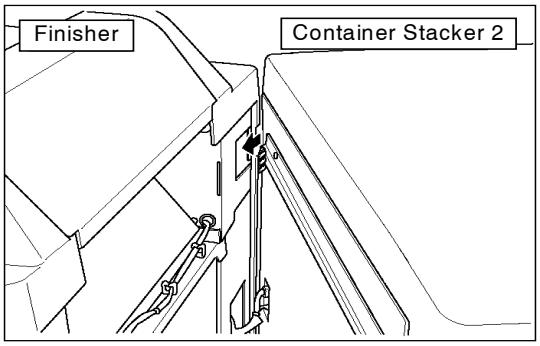
3. Fit the hooks on the Container Stacker installation plates (upper and lower) into the upper and lower holes on the Finisher as illustrated below, then lock them by pushing the Finisher to the back.

CAUTION!

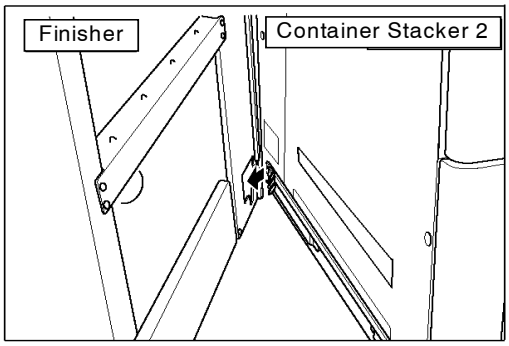
When installing the Finisher take care not to hit the part "A" against the Printer.



Upper view

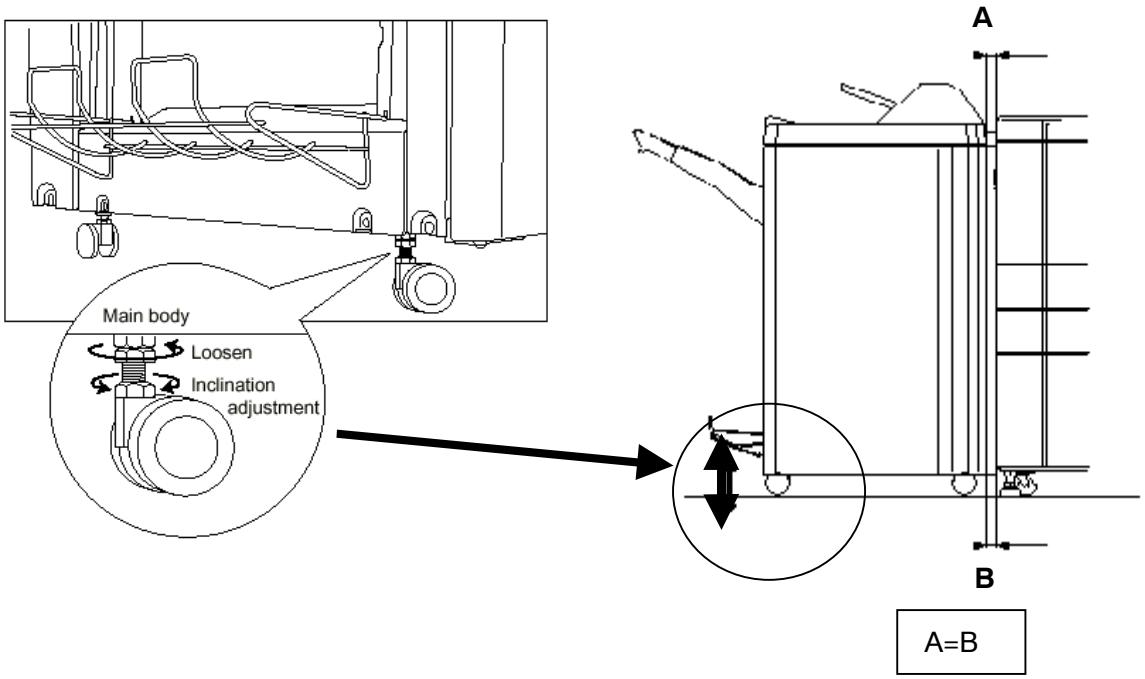


Lower view

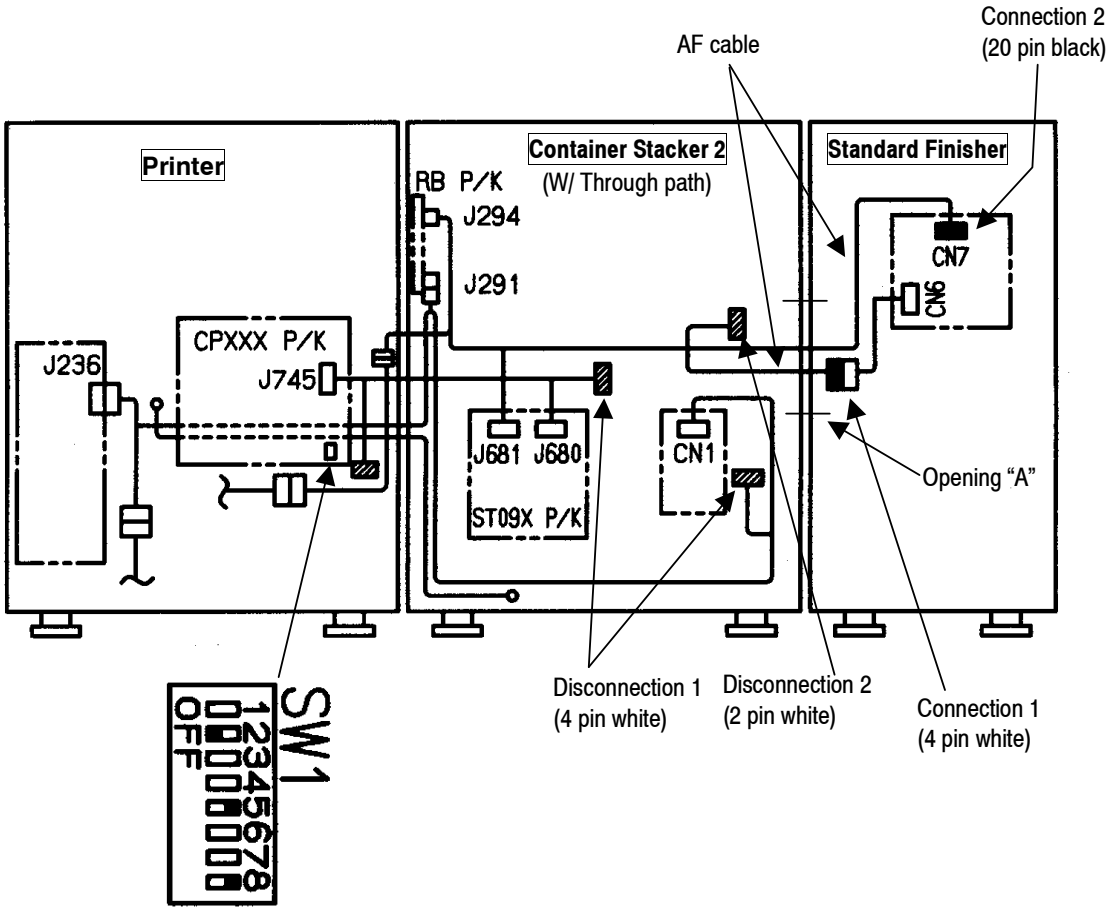


NOTE:

If the gap between the Finisher and the Printer is not equal from top to bottom, adjust the height of the front and rear casters on the paper exit side of the Finisher.



4. Connect the connector of the AF cable of the 4-pin white and 20-pin black connectors coming from the Container Stacker 2 to connector CN7 (4 pin) in the Finisher.
5. Pull the cable through the opening in Container Stacker 2 marked “A” (shown below).
6. On SW1, set the No. 5 and No. 8 switch to On and set the No. 2 switch to Off.



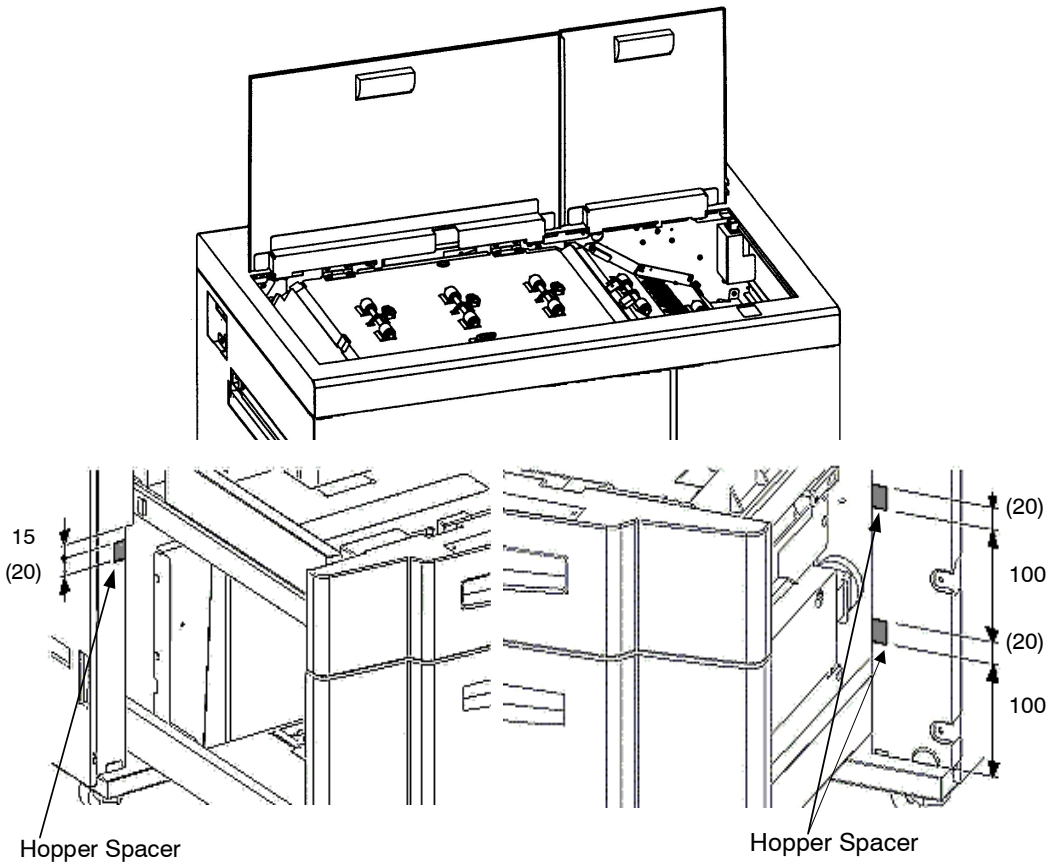
7. Install the Rear Covers of the Printer, Container Stacker 2 and the Finisher.

Adjustment

Adjust paper feed position of Hopper 1

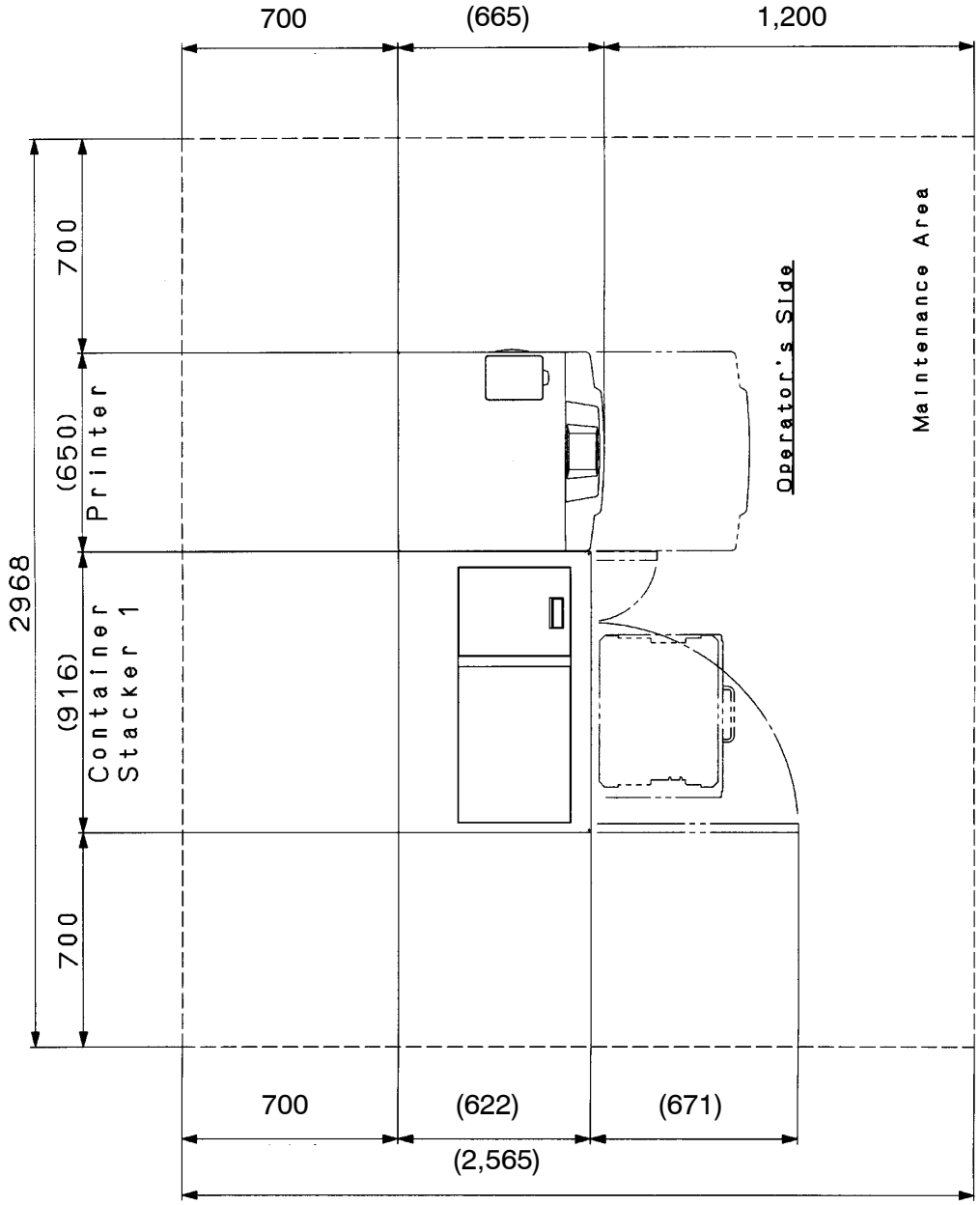
1. Print the same size paper from Hopper 1 and Hopper 2 and check the paper feeding position.
2. If the configuration includes Container Stacker 1, check the paper feeding position on the sample tray.
3. If the configuration includes Container Stacker 2, open the top cover of Container Stacker 2, insert the cheater found in the Printer accessory box) in the interlock switch, and check the paper feeding position on the slit between Paper Guides.
4. Set a standard point in the sample tray and the frame of the Container Stacker and check the gap of the paper feeding position between Hopper 1 and Hopper 2 and whether the paper is closer to the front side or the rear side.
   a. When the paper from Hopper 1 is closer to the front side compared with the paper from Hopper 2, there is no need to add a Hopper spacer.
   b. If the paper from Hopper 1 is closer to the rear side by 1-2 mm compared with the paper from Hopper 2, add 1 piece of Hopper spacer at each location as shown in below.

c. If the paper from Hopper 1 is closer to the rear side by 2 mm or more compared with the paper from Hopper 2, add 2 pieces of Hopper spacer at each location as shown below.

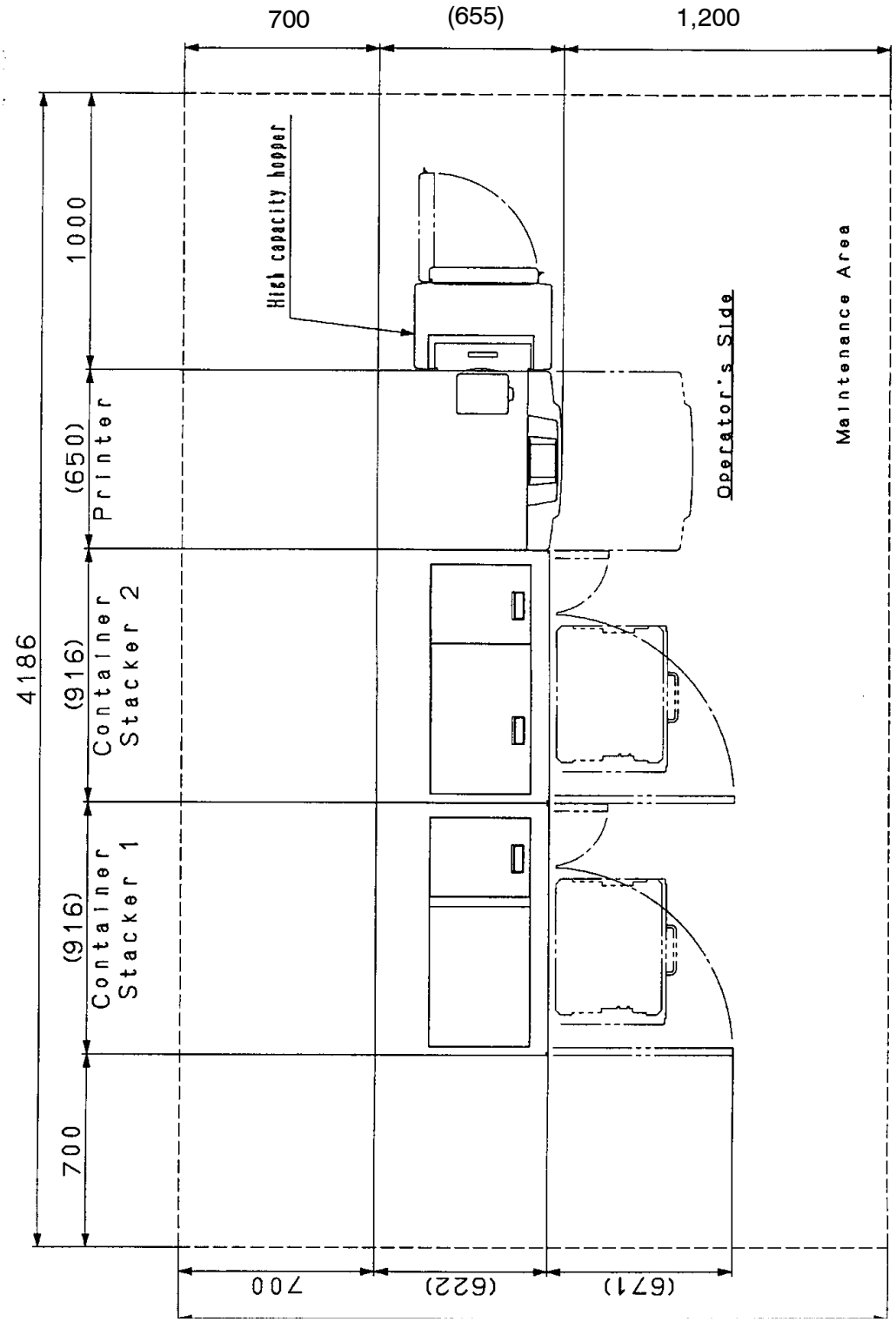


Appendix A
Installation/Maintenance Area

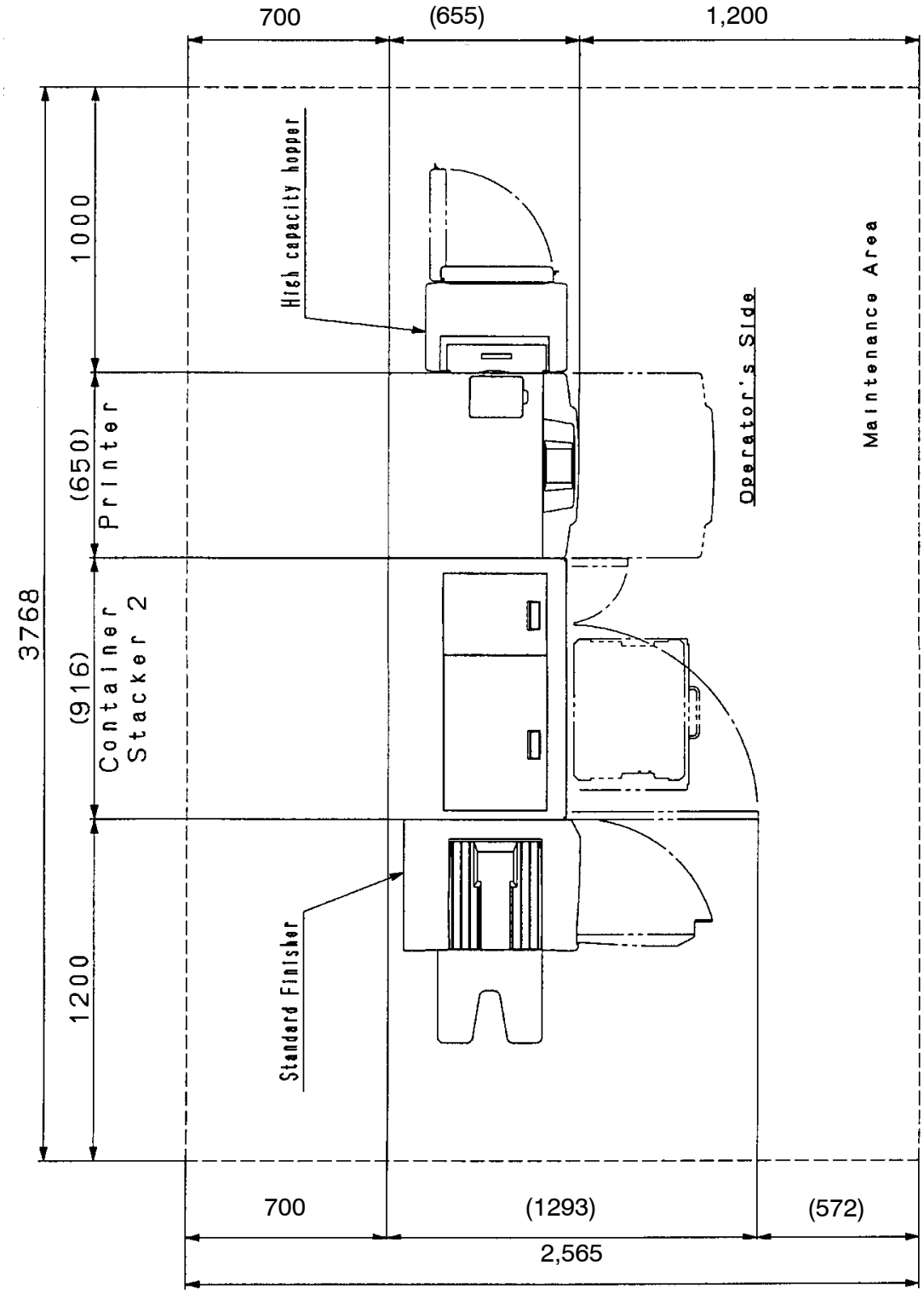
70/92 ppm Printer and Container Stacker 1



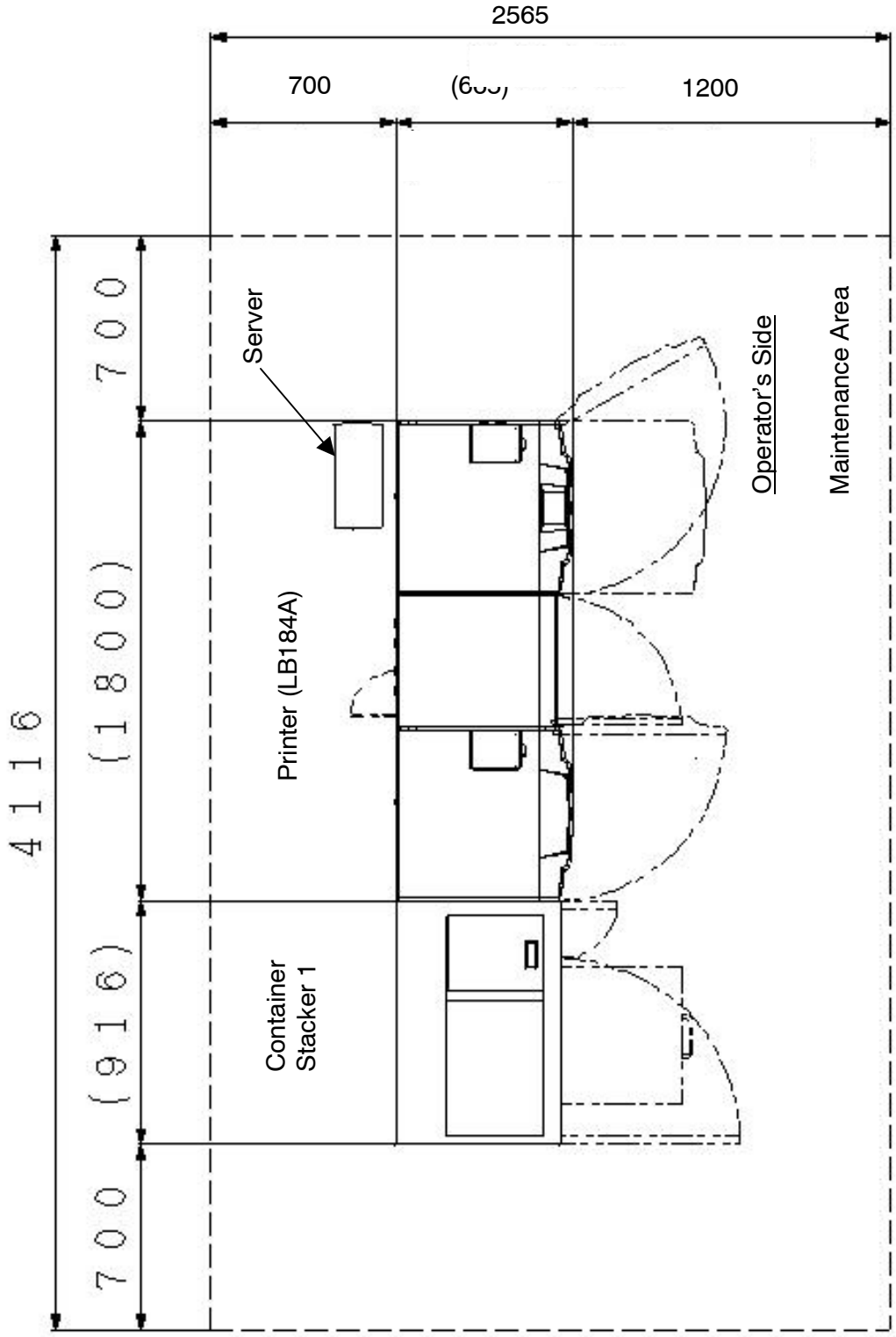
70/92 ppm Printer, High Capacity Hopper, Container Stacker 1 and Container Stacker 2



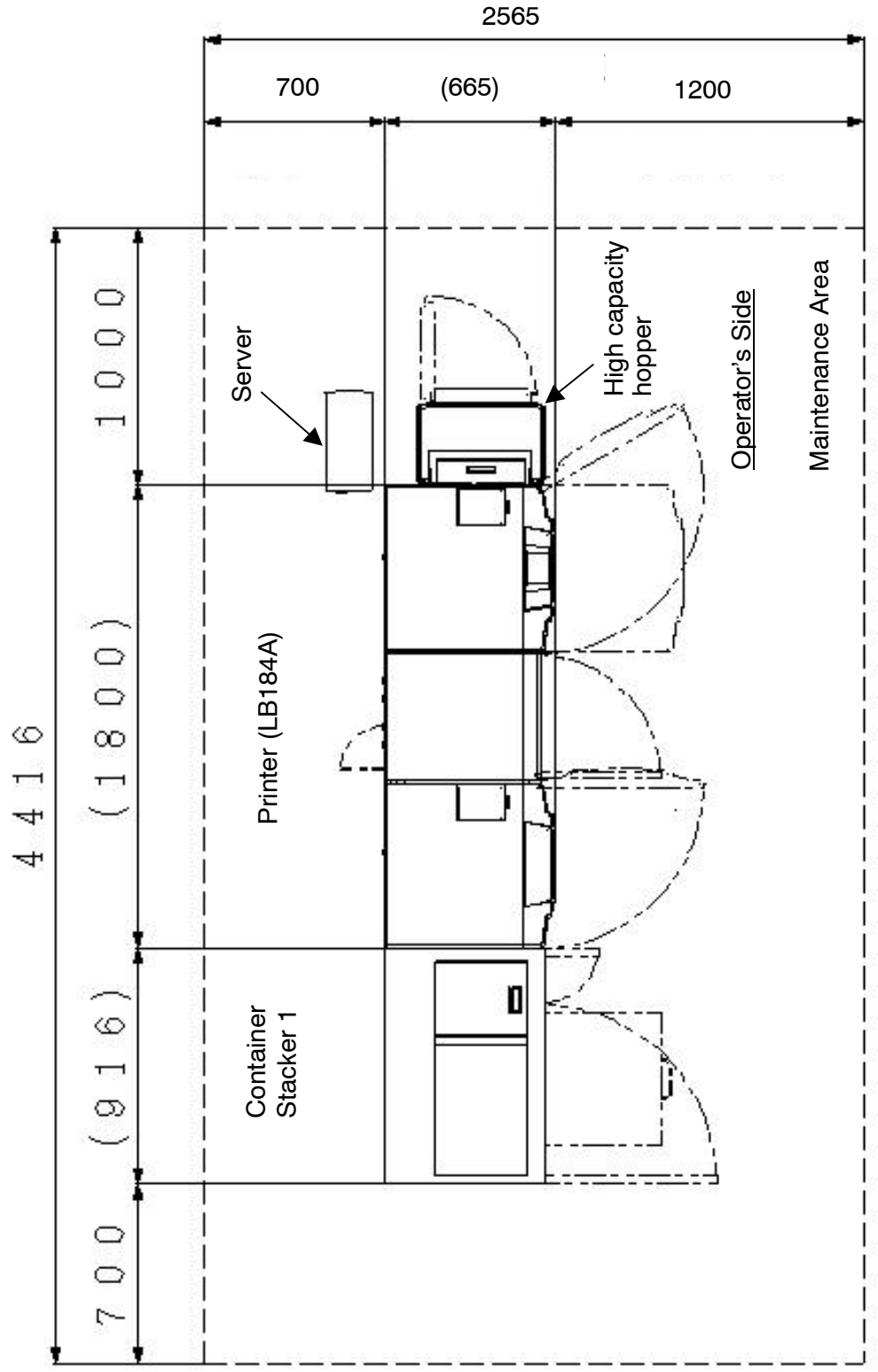
70/92 ppm Printer, High Capacity Hopper, Container Stacker 2 and Standard Finisher



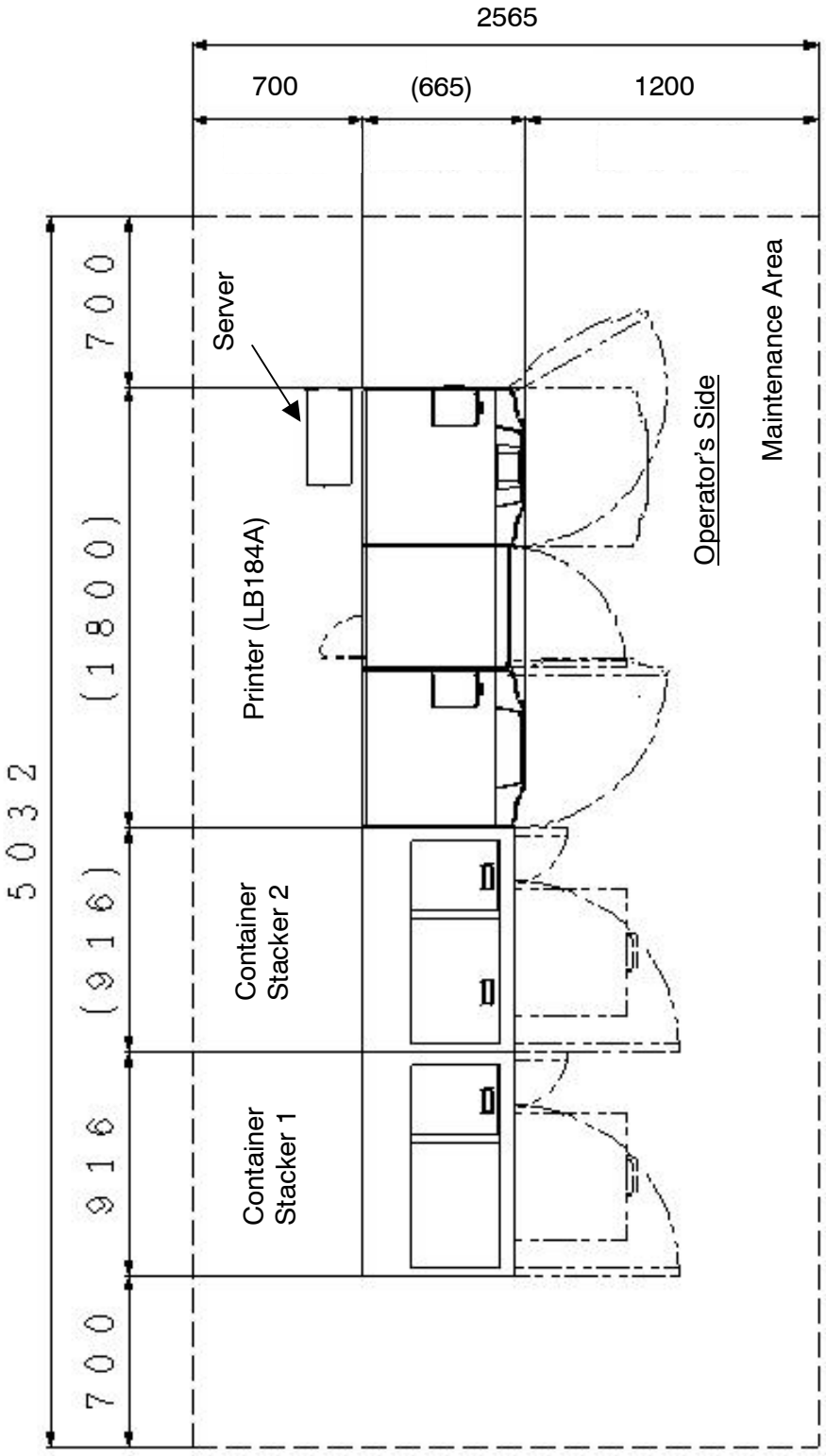
184 ppm Printer and Container Stacker 1



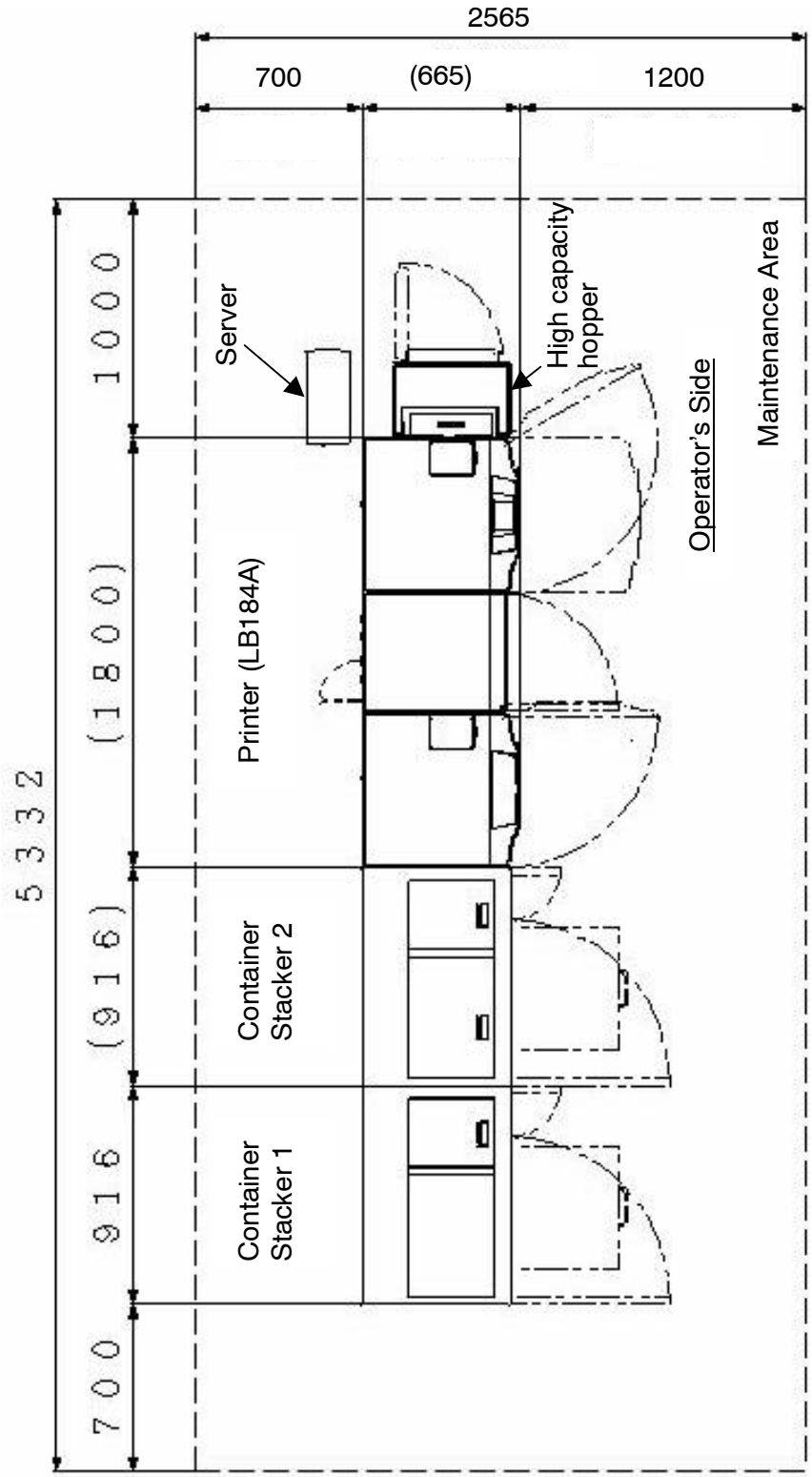
184 ppm Printer, High Capacity Hopper, and Container Stacker 1



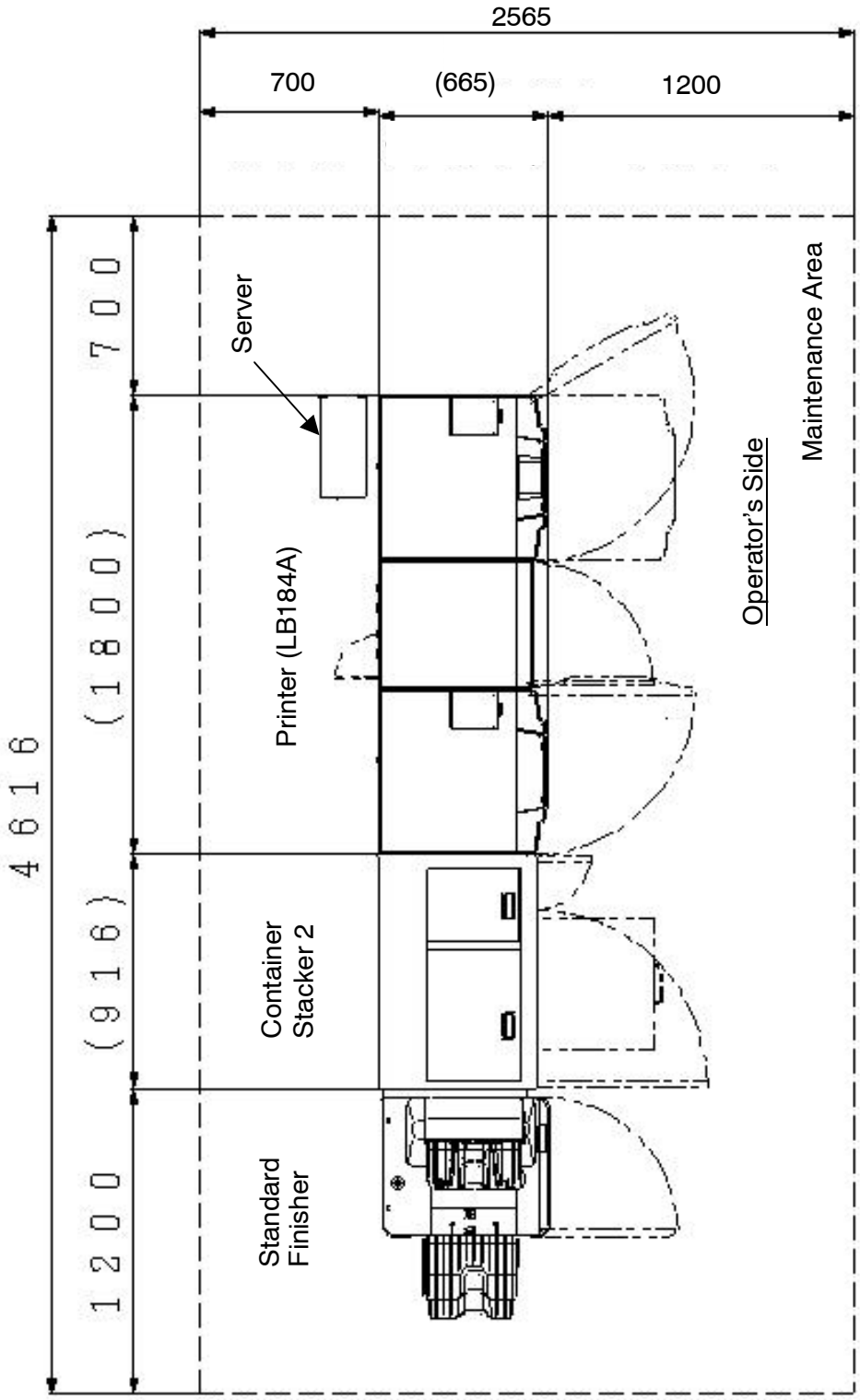
184 ppm Printer, Container Stacker 1, and Container Stacker 2



184 ppm Printer, HIgh Capacity Hopper, and Container Stacker 1 and 2



184 ppm Printer, Container Stacker 2, and Standard Finisher



184 ppm Printer, High Capacity Hopper, Container Stacker 2, and Standard Finisher